Exons	674..763, 1368..1465, 5024..5094		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o3.np	Method	AAT/NAP
Start	748	End	5094
GI	7508879	Score	59
Exons	748..1014, 2380..2436, 2532..2740, 3167..3205, 3631..3784, 4232..4332, 5026..5094		
GI Descrip.	hypothetical protein W03D2.1 - Caenorhabditis elegans gi\|1947160\|gb\|AAC48255.1\| (AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		
Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o2.gs	Method	GENSCAN
Start	1525	End	2322
GI	none	Score	.6
Exons	1525..1919, 2055..2322		
Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	1822	End	2227
GI	none	Score	53
Exons	1822..1914, 1823..1939, 1982..2227, 1987..2223		
Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o3.gs	Method	GENSCAN
Start	3680	End	4497
GI	none	Score	.47
Exons	3680..3821, 4418..4497		
Seq. No.	51689	Seq. ID	OJ990331_04.0421.C16
Gene No.	109454	Strand	-
Start	226	End	345
Name	OJ990331_04.0421.C16.o1.gs	Method	GENSCAN
Start	226	End	345
GI	none	Score	.95
Exons	226..345		
Seq. No.	51689	Seq. ID	OJ990331_04.0421.C16
Gene No.	109455	Strand	-
Start	7309	End	7686
Name	OJ990331_04.0421.C16.o2.np	Method	AAT/NAP
Start	7309	End	7686
GI	5042454	Score	119
Exons	7309..7362, 7621..7686		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	51690	Seq. ID	OJ990331_04.0421.C17

Gene No.	109456	Strand	+
Start	1057	End	4348
Name	OJ990331_04.0421.C17.o1.gs	Method	GENSCAN
Start	1057	End	4348
GI	none	Score	.69
Exons	1057..2318, 2413..4348		

Seq. No.	51690	Seq. ID	OJ990331_04.0421.C17
Gene No.	109456	Strand	+
Start	1057	End	4348
Name	OJ990331_04.0421.C17.o1.np	Method	AAT/NAP
Start	1057	End	4345
GI	6907089	Score	5125
Exons	1057..2318, 2413..4345		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109457	Strand	+
Start	55	End	169
Name	OJ990331_04.0421.C18.o1.gs	Method	GENSCAN
Start	55	End	169
GI	none	Score	.98
Exons	55..169		

Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o2.tm	Method	TBLASTX:Maize
Start	795	End	941
GI	none	Score	126
Exons	795..941, 802..936		

Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o2.gs	Method	GENSCAN
Start	798	End	1985
GI	none	Score	.56
Exons	798..1068, 1075..1640, 1740..1985		

Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o1.np	Method	AAT/NAP
Start	801	End	2054
GI	7228457	Score	2001
Exons	801..2054		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o2.tw	Method	TBLASTX:Wheat
Start	810	End	1412
GI	none	Score	77

Exons	810..935, 814..936, 1128..1412, 1129..1407		
Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	1413	End	1794
GI	none	Score	159
Exons	1413..1793, 1444..1692, 1452..1790, 1726..1794		
Seq. No.	51691	Seq. ID	OJ990331_04.0421.C18
Gene No.	109458	Strand	-
Start	798	End	2054
Name	OJ990331_04.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	1569	End	1931
GI	none	Score	86
Exons	1569..1616, 1599..1811, 1608..1931, 1621..1914		
Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o1.np	Method	AAT/NAP
Start	1	End	3278
GI	7228457	Score	3441
Exons	1..93, 160..1311, 1434..2270, 3218..3278		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o1.gs	Method	GENSCAN
Start	40	End	2205
GI	none	Score	.83
Exons	40..1711, 1895..2205		
Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o3.tw	Method	TBLASTX:Wheat
Start	181	End	639
GI	none	Score	89
Exons	181..330, 182..319, 184..321, 361..615, 365..550, 385..639		
Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	1240	End	1611
GI	none	Score	90
Exons	1240..1611, 1451..1594		
Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o2.tw	Method	TBLASTX:Wheat

Start	1270	End	1690
GI	none	Score	317
Exons	1270..1689, 1277..1690		

Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	1363	End	1747
GI	none	Score	239
Exons	1363..1746, 1382..1747		

Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	1774	End	2130
GI	none	Score	128
Exons	1774..2079, 1774..2130, 1784..2095		

Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	1798	End	2260
GI	none	Score	227
Exons	1798..2259, 1804..2259, 1805..2260		

Seq. No.	51692	Seq. ID	OJ990331_04.0421.C19
Gene No.	109459	Strand	-
Start	1	End	3278
Name	OJ990331_04.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	1855	End	2220
GI	none	Score	118
Exons	1855..1989, 1996..2220		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109460	Strand	+
Start	2794	End	4087
Name	OJ990331_04.0421.C20.o3.np	Method	AAT/NAP
Start	2794	End	4087
GI	7523512	Score	141
Exons	2794..2851, 3955..4087		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109461	Strand	-
Start	1	End	3667
Name	OJ990331_04.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	2946
GI	7228457	Score	3776
Exons	1..54, 583..2518, 2580..2946		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20

Gene No.	109461	Strand	-
Start	1	End	3667
Name	OJ990331_04.0421.C20.o1.gs	Method	GENSCAN
Start	355	End	3540
GI	none	Score	.46
Exons	355..506, 533..1022, 1084..1121, 1139..2991, 3021..3227, 3484..3540		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109461	Strand	-
Start	1	End	3667
Name	OJ990331_04.0421.C20.o2.np	Method	AAT/NAP
Start	3174	End	3667
GI	5042454	Score	238
Exons	3174..3227, 3484..3667		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109462	Strand	-
Start	5799	End	6400
Name	OJ990331_04.0421.C20.o2.gs	Method	GENSCAN
Start	5799	End	6400
GI	none	Score	.76
Exons	5799..5917, 6229..6400		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	676	End	1162
GI	none	Score	164
Exons	676..1161, 707..967, 1031..1162		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o2.tw	Method	TBLASTX:Wheat
Start	1900	End	2452
GI	none	Score	92
Exons	1900..2157, 1934..2173, 2140..2238, 2141..2233, 2245..2292, 2417..2452		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	2002	End	2287
GI	none	Score	92
Exons	2002..2250, 2003..2287		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o3.gs	Method	GENSCAN
Start	7473	End	9559
GI	none	Score	.74
Exons	7473..7643, 8070..8095, 8474..8585, 8717..8917, 9151..9208,		

9444..9559

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o5.np	Method	AAT/NAP
Start	8423	End	12002
GI	6721547	Score	73
Exons	8423..8455, 11919..12002		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o4.gs	Method	GENSCAN
Start	10460	End	14372
GI	none	Score	.47
Exons	10460..11097, 14354..14372		

Seq. No.	51693	Seq. ID	OJ990331_04.0421.C20
Gene No.	109463	Strand	-
Start	7473	End	14372
Name	OJ990331_04.0421.C20.o4.np	Method	AAT/NAP
Start	11920	End	12002
GI	6721547	Score	67
Exons	11920..12002		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51694	Seq. ID	OJ990331_04.0421.C21
Gene No.	109464	Strand	+
Start	1	End	525
Name	OJ990331_04.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	525
GI	7242910	Score	115
Exons	1..115, 165..272, 428..525		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	51694	Seq. ID	OJ990331_04.0421.C21
Gene No.	109465	Strand	-
Start	41	End	106
Name	OJ990331_04.0421.C21.o1.gs	Method	GENSCAN
Start	41	End	106
GI	none	Score	.6
Exons	41..106		

Seq. No.	51695	Seq. ID	OJ990331_04.0421.C22
Gene No.	109466	Strand	-
Start	1	End	1450
Name	OJ990331_04.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1450
GI	6723387	Score	173
Exons	1..59, 389..1030, 1426..1450		
GI Descrip.	(AL132956) putative protein [Arabidopsis thaliana]		

Seq. No.	51695	Seq. ID	OJ990331_04.0421.C22
Gene No.	109466	Strand	-
Start	1	End	1450

Name	OJ990331_04.0421.C22.o1.gs	Method	GENSCAN
Start	290	End	1368
GI	none	Score	.55
Exons	290..323, 1018..1193, 1195..1368		

Seq. No.	51696	Seq. ID	OJ990331_04.0421.C23
Gene No.	109467	Strand	+
Start	35	End	1042
Name	OJ990331_04.0421.C23.o1.gs	Method	GENSCAN
Start	35	End	1042
GI	none	Score	.95
Exons	35..317, 810..1042		

Seq. No.	51696	Seq. ID	OJ990331_04.0421.C23
Gene No.	109468	Strand	-
Start	2605	End	6260
Name	OJ990331_04.0421.C23.o1.np	Method	AAT/NAP
Start	1986	End	3244
GI	421867	Score	204
Exons	1986..2053, 2552..2765, 3145..3244		
GI Descrip.	ubiquitin / ribosomal protein CEP52 - turnip gi\|347064 (L21898) ubiquitin/ribosomal protein [Brassica rapa] gi\|395079\|emb\|CAA80863\| (Z24738) ubiquitin/ribosomal protein [Brassica rapa]		

Seq. No.	51696	Seq. ID	OJ990331_04.0421.C23
Gene No.	109468	Strand	-
Start	2605	End	6260
Name	OJ990331_04.0421.C23.o2.gs	Method	GENSCAN
Start	2605	End	6260
GI	none	Score	.75
Exons	2605..2765, 3145..3265, 5990..6062, 6148..6260		

Seq. No.	51697	Seq. ID	OJ990331_04.0421.C24
Gene No.	109469	Strand	+
Start	1	End	5755
Name	OJ990331_04.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	5755
GI	7485454	Score	580
Exons	1..92, 1857..1970, 2691..2854, 3525..3684, 4822..4878, 4961..5066, 5151..5284, 5714..5755		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi\|4455255\|emb\|CAB36754.1\| (AL035523) putative protein [Arabidopsis thaliana] gi\|7269362\|emb\|CAB79421.1\| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	51697	Seq. ID	OJ990331_04.0421.C24
Gene No.	109469	Strand	+
Start	1	End	5755
Name	OJ990331_04.0421.C24.o1.gs	Method	GENSCAN
Start	212	End	5713
GI	none	Score	.78
Exons	212..303, 346..496, 769..1056, 1412..1561, 1746..1970, 2691..2854, 3525..3711, 4822..4878, 4961..5066, 5151..5284, 5402..5476, 5588..5713		

Seq. No.	51697	Seq. ID	OJ990331_04.0421.C24

Gene No.	109469	Strand	+
Start	1	End	5755
Name	OJ990331_04.0421.C24.o2.np	Method	AAT/NAP
Start	3295	End	5755
GI	6968223	Score	67
Exons	3295..3344, 5151..5284, 5402..5476, 5588..5755		
GI Descrip.	(AL139076) putative ATP-dependent DNA helicase [Campylobacter jejuni]		

Seq. No.	51697	Seq. ID	OJ990331_04.0421.C24
Gene No.	109469	Strand	+
Start	1	End	5755
Name	OJ990331_04.0421.C24.o1.gp	Method	AAT/GAP
Start	4949	End	5345
GI	uC-osflM202052b06b1	Score	392
Exons	4949..5066, 5151..5345		
GI Descrip.	'4455255/emb\|CAB36754.1\| 2.0e-24 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109470	Strand	+
Start	419	End	7299
Name	OJ990331_04.0421.C25.o1.gs	Method	GENSCAN
Start	419	End	7081
GI	none	Score	.79
Exons	419..475, 1019..1135, 1220..1320, 1464..1530, 2671..2748, 3689..3892, 3983..4021, 4462..4575, 4810..4866, 5099..5259, 5449..5542, 5826..5876, 6088..6150, 6456..6518, 6847..6966, 6977..7081		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109470	Strand	+
Start	419	End	7299
Name	OJ990331_04.0421.C25.o1.np	Method	AAT/NAP
Start	1019	End	5888
GI	7485454	Score	699
Exons	1019..1135, 1220..1320, 1464..1530, 2096..2146, 2671..2748, 3689..3892, 4504..4575, 4648..4734, 5099..5331, 5447..5542, 5826..5888		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi\|4455255\|emb\|CAB36754.1\| (AL035523) putative protein [Arabidopsis thaliana] gi\|7269362\|emb\|CAB79421.1\| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109470	Strand	+
Start	419	End	7299
Name	OJ990331_04.0421.C25.o1.gp	Method	AAT/GAP
Start	6304	End	7299
GI	none	Score	1230
Exons	6304..6332, 6456..6518, 6734..7299		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109471	Strand	+
Start	8052	End	10473
Name	OJ990331_04.0421.C25.o2.gp	Method	AAT/GAP
Start	8052	End	10473

GI	546_1.R1084	Score	1480
Exons	8052..8222, 8421..8469, 9450..9681, 10123..10473		
GI Descrip.	'585551/sp\|Q07661\|NDK1_ORYSA 1.0e-84 NUCLEOSIDE DIPHOSPHATE KINASE I (NDK I) (NDP KINASE I) >gi_629798_pir__S43330 nucleoside-diphosphate kinase (EC 2.7.4.6) - rice >gi_303849_dbj_BAA03798_ (D16292) nucleoside diphosphate kinase [Oryza sativa]'		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109471	Strand	+
Start	8052	End	10473
Name	OJ990331_04.0421.C25.o2.np	Method	AAT/NAP
Start	8172	End	10237
GI	585551	Score	703
Exons	8172..8222, 8421..8469, 9450..9681, 10123..10237		
GI Descrip.	NUCLEOSIDE DIPHOSPHATE KINASE I (NDK I) (NDP KINASE I) (NDPK I) gi\|629798\|pir\|\|S43330 nucleoside-diphosphate kinase (EC 2.7.4.6) - rice gi\|303849\|dbj\|BAA03798\| (D16292) nucleoside diphosphate kinase [Oryza sativa]		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109471	Strand	+
Start	8052	End	10473
Name	OJ990331_04.0421.C25.o3.gs	Method	GENSCAN
Start	9410	End	10240
GI	none	Score	.7
Exons	9410..9681, 10123..10240		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109472	Strand	+
Start	11587	End	12943
Name	OJ990331_04.0421.C25.o3.np	Method	AAT/NAP
Start	11587	End	12943
GI	4164576	Score	618
Exons	11587..11982, 12105..12570, 12880..12943		
GI Descrip.	(AF098946) CTF2A [Arabidopsis thaliana]		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109473	Strand	-
Start	7735	End	8522
Name	OJ990331_04.0421.C25.o2.gs	Method	GENSCAN
Start	7735	End	8522
GI	none	Score	.54
Exons	7735..7865, 8056..8161, 8205..8414, 8463..8522		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o3.tm	Method	TBLASTX:Maize
Start	3761	End	4026
GI	none	Score	220
Exons	3761..3892, 3763..3885, 3980..4024, 3982..4026		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o1.tm	Method	TBLASTX:Maize

Start	8165	End	10333
GI	none	Score	91
Exons	8165..8221, 8166..8225, 8166..8222, 8420..8473, 8421..8474, 9448..9690, 9449..9691, 10120..10233, 10121..10243, 10122..10250, 10295..10324, 10295..10333		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o2.tc	Method	TBLASTX:Cress
Start	8171	End	10240
GI	none	Score	86
Exons	8171..8218, 8172..8225, 8421..8474, 9447..9683, 9448..9690, 9449..9691, 9455..9700, 10120..10233, 10121..10240		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o1.tw	Method	TBLASTX:Wheat
Start	8174	End	9651
GI	none	Score	74
Exons	8174..8245, 8175..8225, 8421..8474, 9448..9651, 9449..9649		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o1.ts	Method	TBLASTX:Soybean
Start	9436	End	10324
GI	none	Score	305
Exons	9436..9690, 9440..9691, 9467..9700, 10120..10233, 10121..10324		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o4.gs	Method	GENSCAN
Start	11458	End	12475
GI	none	Score	.97
Exons	11458..12050, 12056..12475		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o1.tc	Method	TBLASTX:Cress
Start	11788	End	12569
GI	none	Score	199
Exons	11788..11967, 11802..11966, 12105..12239, 12285..12431, 12308..12409, 12444..12569, 12446..12562		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o3.ts	Method	TBLASTX:Soybean
Start	11815	End	11967
GI	none	Score	185
Exons	11815..11967, 11817..11930		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25

Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o2.tm	Method	TBLASTX:Maize
Start	12312	End	12569
GI	none	Score	193
Exons	12312..12431, 12314..12412, 12444..12569, 12449..12562		

Seq. No.	51698	Seq. ID	OJ990331_04.0421.C25
Gene No.	109474	Strand	-
Start	11458	End	12569
Name	OJ990331_04.0421.C25.o2.ts	Method	TBLASTX:Soybean
Start	12341	End	12569
GI	none	Score	136
Exons	12341..12400, 12342..12431, 12444..12569, 12446..12562		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109475	Strand	+
Start	1	End	1097
Name	OJ990331_04.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	1076
GI	4263789	Score	627
Exons	1..55, 550..1076		
GI Descrip.	(AC006068) putative monooxygenase [Arabidopsis thaliana]		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109475	Strand	+
Start	1	End	1097
Name	OJ990331_04.0421.C26.o1.gs	Method	GENSCAN
Start	550	End	1097
GI	none	Score	.99
Exons	550..1097		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o1.tc	Method	TBLASTX:Cress
Start	1	End	1052
GI	none	Score	81
Exons	1..60, 525..800, 545..763, 875..1048, 876..1052		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o3.ts	Method	TBLASTX:Soybean
Start	1	End	773
GI	none	Score	91
Exons	1..60, 3..53, 525..773, 548..763		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o4.ts	Method	TBLASTX:Soybean
Start	879	End	1052
GI	none	Score	195
Exons	879..1052, 884..1051		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26

Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o2.gs	Method	GENSCAN
Start	2515	End	4049
GI	none	Score	.89
Exons	2515..3052, 3091..4049		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o2.np	Method	AAT/NAP
Start	2524	End	4070
GI	4512670	Score	642
Exons	2524..3017, 3095..4070		
GI Descrip.	(AC006931) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o2.tc	Method	TBLASTX:Cress
Start	2620	End	3881
GI	none	Score	75
Exons	2620..2721, 2654..2722, 2752..3018, 2762..2935, 3096..3224, 3741..3881		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o2.ts	Method	TBLASTX:Soybean
Start	2698	End	3224
GI	none	Score	47
Exons	2698..2727, 2699..2725, 2746..3018, 2747..2998, 3120..3224		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o2.tm	Method	TBLASTX:Maize
Start	2830	End	3164
GI	none	Score	122
Exons	2830..2958, 2831..2941, 2947..3018, 2964..3020, 3096..3164, 3103..3162		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	3243	End	3740
GI	none	Score	125
Exons	3243..3740, 3385..3633		

Seq. No.	51699	Seq. ID	OJ990331_04.0421.C26
Gene No.	109476	Strand	-
Start	2515	End	4070
Name	OJ990331_04.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	3459	End	3894
GI	none	Score	113
Exons	3459..3695, 3460..3630, 3693..3881, 3751..3894		

Seq. No.	51700	Seq. ID	OJ990331_04.0421.C31
Gene No.	109477	Strand	-
Start	1	End	771
Name	OJ990331_04.0421.C31.o1.np	Method	AAT/NAP
Start	1	End	771
GI	7413535	Score	71
Exons	1..74, 129..309, 711..771		
GI Descrip.	(AL162972) putative protein [Arabidopsis thaliana]		

Seq. No.	51700	Seq. ID	OJ990331_04.0421.C31
Gene No.	109477	Strand	-
Start	1	End	771
Name	OJ990331_04.0421.C31.o1.gs	Method	GENSCAN
Start	80	End	315
GI	none	Score	.63
Exons	80..315		

Seq. No.	51701	Seq. ID	OJ990331_04.0421.C32
Gene No.	109478	Strand	-
Start	409	End	701
Name	OJ990331_04.0421.C32.o1.gs	Method	GENSCAN
Start	409	End	701
GI	none	Score	.58
Exons	409..701		

Seq. No.	51702	Seq. ID	OJ990331_04.0421.C34
Gene No.	109479	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C34.o1.np	Method	AAT/NAP
Start	1	End	949
GI	7485454	Score	241
Exons	1..101, 184..289, 374..507, 750..949		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi\|4455255\|emb\|CAB36754.1\| (AL035523) putative protein [Arabidopsis thaliana] gi\|7269362\|emb\|CAB79421.1\| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	51702	Seq. ID	OJ990331_04.0421.C34
Gene No.	109479	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C34.o1.gs	Method	GENSCAN
Start	46	End	699
GI	none	Score	.92
Exons	46..101, 184..289, 374..507, 625..699		

Seq. No.	51702	Seq. ID	OJ990331_04.0421.C34
Gene No.	109479	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C34.o1.gp	Method	AAT/GAP
Start	172	End	568
GI	uC-osflM202052b06b1	Score	392
Exons	172..289, 374..568		
GI Descrip.	'4455255/emb\|CAB36754.1\| 2.0e-24 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	51703	Seq. ID	OJ990331_04.0421.C35

Gene No.	109480	Strand	+
Start	170	End	601
Name	OJ990331_04.0421.C35.o1.gs	Method	GENSCAN
Start	170	End	601
GI	none	Score	.75
Exons	170..601		

Seq. No.	51704	Seq. ID	OJ990331_04.0421.C36
Gene No.	109481	Strand	+
Start	534	End	770
Name	OJ990331_04.0421.C36.o1.gs	Method	GENSCAN
Start	534	End	770
GI	none	Score	.97
Exons	534..770		

Seq. No.	51705	Seq. ID	OJ990331_04.0421.C38
Gene No.	109482	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C38.o1.gp	Method	AAT/GAP
Start	1	End	271
GI	uC-osf1M202052b06b1	Score	276
Exons	1..114, 232..271		
GI Descrip.	'4455255/emb\|CAB36754.1\| 2.0e-24 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	51705	Seq. ID	OJ990331_04.0421.C38
Gene No.	109482	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C38.o1.np	Method	AAT/NAP
Start	1	End	949
GI	7485454	Score	347
Exons	1..114, 619..747, 821..949		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi\|4455255\|emb\|CAB36754.1\| (AL035523) putative protein [Arabidopsis thaliana] gi\|7269362\|emb\|CAB79421.1\| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	51705	Seq. ID	OJ990331_04.0421.C38
Gene No.	109482	Strand	+
Start	1	End	949
Name	OJ990331_04.0421.C38.o1.gs	Method	GENSCAN
Start	232	End	747
GI	none	Score	.76
Exons	232..306, 418..543, 619..747		

Seq. No.	51706	Seq. ID	OJ990401_02.0419.C1
Gene No.	109483	Strand	-
Start	493	End	559
Name	OJ990401_02.0419.C1.o1.gs	Method	GENSCAN
Start	493	End	559
GI	none	Score	.51
Exons	493..559		

Seq. No.	51707	Seq. ID	OJ990401_02.0419.C2
Gene No.	109484	Strand	-
Start	374	End	2209
Name	OJ990401_02.0419.C2.o1.gs	Method	GENSCAN

Start	374	End	2209
GI	none	Score	.98
Exons	374..2209		

Seq. No.	51707	Seq. ID	OJ990401_02.0419.C2
Gene No.	109484	Strand	-
Start	374	End	2209
Name	OJ990401_02.0419.C2.o1.np	Method	AAT/NAP
Start	407	End	2127
GI	7489737	Score	597
Exons	407..534, 610..1036, 1106..2127		
GI Descrip.	gag protein homolog - maize retrotransposon Opie-2 gi\|3645898\|gb\|AAC49501.1\| (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	51707	Seq. ID	OJ990401_02.0419.C2
Gene No.	109484	Strand	-
Start	374	End	2209
Name	OJ990401_02.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1499	End	1903
GI	none	Score	68
Exons	1499..1903, 1512..1802, 1640..1864		

Seq. No.	51708	Seq. ID	OJ990401_02.0419.C3
Gene No.	109485	Strand	-
Start	146	End	2929
Name	OJ990401_02.0419.C3.o1.gs	Method	GENSCAN
Start	146	End	1410
GI	none	Score	.6
Exons	146..355, 1383..1410		

Seq. No.	51708	Seq. ID	OJ990401_02.0419.C3
Gene No.	109485	Strand	-
Start	146	End	2929
Name	OJ990401_02.0419.C3.o1.np	Method	AAT/NAP
Start	216	End	2031
GI	1399945	Score	55
Exons	216..297, 1967..2031		
GI Descrip.	(U60194) RNA helicase GLH-2 [Caenorhabditis elegans] gi\|1405387 (U60449) GLH-2 [Caenorhabditis elegans]		

Seq. No.	51708	Seq. ID	OJ990401_02.0419.C3
Gene No.	109485	Strand	-
Start	146	End	2929
Name	OJ990401_02.0419.C3.o2.gs	Method	GENSCAN
Start	1886	End	2929
GI	none	Score	.65
Exons	1886..2929		

Seq. No.	51709	Seq. ID	OJ990401_02.0419.C4
Gene No.	109486	Strand	+
Start	939	End	1790
Name	OJ990401_02.0419.C4.o1.gs	Method	GENSCAN
Start	939	End	1790
GI	none	Score	.42
Exons	939..994, 1684..1790		

Seq. No.	51709	Seq. ID	OJ990401_02.0419.C4
Gene No.	109486	Strand	+
Start	939	End	1790
Name	OJ990401_02.0419.C4.o1.np	Method	AAT/NAP
Start	1069	End	1288
GI	4680186	Score	203
Exons	1069..1288		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51709	Seq. ID	OJ990401_02.0419.C4
Gene No.	109487	Strand	+
Start	3498	End	4980
Name	OJ990401_02.0419.C4.o3.gs	Method	GENSCAN
Start	3498	End	4980
GI	none	Score	.63
Exons	3498..3506, 4009..4303, 4406..4843, 4895..4980		

Seq. No.	51709	Seq. ID	OJ990401_02.0419.C4
Gene No.	109488	Strand	-
Start	1683	End	2944
Name	OJ990401_02.0419.C4.o2.np	Method	AAT/NAP
Start	1683	End	2935
GI	6907087	Score	487
Exons	1683..1784, 2324..2935		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51709	Seq. ID	OJ990401_02.0419.C4
Gene No.	109488	Strand	-
Start	1683	End	2944
Name	OJ990401_02.0419.C4.o2.gs	Method	GENSCAN
Start	2222	End	2944
GI	none	Score	.58
Exons	2222..2944		

Seq. No.	51710	Seq. ID	OJ990401_02.0419.C5
Gene No.	109489	Strand	-
Start	384	End	828
Name	OJ990401_02.0419.C5.o1.np	Method	AAT/NAP
Start	384	End	828
GI	6063554	Score	115
Exons	384..563, 787..828		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51711	Seq. ID	OJ990401_02.0419.C6
Gene No.	109490	Strand	-
Start	1510	End	1838
Name	OJ990401_02.0419.C6.o1.gp	Method	AAT/GAP
Start	1510	End	1838
GI	uC-osflcyp032e05a1	Score	607
Exons	1510..1838		
GI Descrip.	'4521193/dbj\|AB013450.1\|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	100	End	1147
GI	none	Score	82
Exons	100..168, 307..393, 308..388, 428..562, 436..528, 447..560, 658..795, 658..747, 1084..1146, 1085..1147		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.np	Method	AAT/NAP
Start	246	End	1184
GI	7291735	Score	219
Exons	246..376, 435..560, 659..744, 1084..1184		
GI Descrip.	(AE003462) CG3209 gene product [Drosophila melanogaster]		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.gs	Method	GENSCAN
Start	655	End	5075
GI	none	Score	.55
Exons	655..744, 1084..1202, 1415..1595, 2401..2507, 2903..3307, 3663..3706, 4108..4169, 4294..4383, 4453..4572, 4890..5075		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.gp	Method	AAT/GAP
Start	3859	End	5075
GI	17442_1.R1084	Score	1264
Exons	3859..4169, 4294..4383, 4453..4572, 4890..5075		
GI Descrip.	'118304/sp\|P19572\|DCDA_PSEAE 6.0e-69 DIAMINOPIMELATE DECARBOXYLASE (DAP DECARBOXYLASE) >gi_77626_pir__A31133 diaminopimelate decarboxylase (EC 4.1.1.20) - Pseudomonas aeruginosa'		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	4044	End	5076
GI	none	Score	78
Exons	4044..4166, 4080..4169, 4085..4174, 4282..4383, 4283..4348, 4287..4385, 4293..4385, 4294..4386, 4436..4543, 4447..4539, 4453..4554, 4457..4576, 4552..4575, 4830..5075, 4890..5075, 4894..5076		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	4087	End	5076
GI	none	Score	66
Exons	4087..4194, 4092..4169, 4282..4383, 4283..4348, 4284..4385,		

4293..4385, 4294..4386, 4453..4545, 4454..4576, 4546..4575, 4890..5075, 4890..5075, 4891..5076

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	4092	End	4970
GI	none	Score	53
Exons	4092..4169, 4093..4188, 4282..4383, 4283..4348, 4293..4385, 4294..4386, 4474..4554, 4475..4576, 4546..4575, 4890..4925, 4926..4970		

Seq. No.	51712	Seq. ID	OJ990401_02.0419.C7
Gene No.	109491	Strand	-
Start	246	End	5076
Name	OJ990401_02.0419.C7.o2.np	Method	AAT/NAP
Start	4092	End	5033
GI	6562332	Score	556
Exons	4092..4169, 4294..4383, 4453..4572, 4890..5033		
GI Descrip.	(AJ249960) diaminopimelate decarboxylase [Arabidopsis thaliana]		

Seq. No.	51713	Seq. ID	OJ990401_02.0419.C8
Gene No.	109492	Strand	-
Start	354	End	1096
Name	OJ990401_02.0419.C8.o1.gs	Method	GENSCAN
Start	354	End	1096
GI	none	Score	.87
Exons	354..422, 1040..1096		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109493	Strand	+
Start	1	End	1587
Name	OJ990401_02.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1587
GI	4416301	Score	84
Exons	1..25, 1423..1587		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	1498	End	1767
GI	none	Score	79
Exons	1498..1551, 1501..1551, 1503..1565, 1551..1682, 1557..1682, 1561..1746, 1567..1767		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o2.np	Method	AAT/NAP
Start	1675	End	3915
GI	6630685	Score	2562
Exons	1675..2686, 2806..3915		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	1759	End	2217
GI	none	Score	154
Exons	1759..1893, 1767..1874, 1905..1931, 1906..1929, 1929..2216, 1933..2217		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1881	End	2569
GI	none	Score	56
Exons	1881..1952, 1881..1955, 1882..1953, 1953..2531, 1954..2535, 2033..2569		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	2062	End	2523
GI	none	Score	239
Exons	2062..2373, 2082..2267, 2422..2523		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	2305	End	2535
GI	none	Score	100
Exons	2305..2376, 2382..2531, 2395..2535, 2419..2535		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	2858	End	3163
GI	none	Score	417
Exons	2858..3163, 2872..3162		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	2897	End	3502
GI	5509260	Score	235
Exons	2897..3115, 2897..3157, 3121..3411, 3122..3502, 3272..3496		
GI Descrip.	-		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	3038	End	3496

GI	none	Score	82
Exons	3038..3112, 3113..3145, 3141..3476, 3145..3411, 3146..3490, 3146..3496		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	3104	End	3385
GI	none	Score	189
Exons	3104..3385, 3184..3366		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	3164	End	3631
GI	none	Score	624
Exons	3164..3631, 3168..3629, 3169..3630		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o3.ts	Method	TBLASTX:Soybean
Start	3637	End	3915
GI	none	Score	233
Exons	3637..3915, 3650..3913		

Seq. No.	51714	Seq. ID	OJ990401_02.0419.C9
Gene No.	109494	Strand	+
Start	1675	End	3915
Name	OJ990401_02.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	3653	End	3915
GI	none	Score	342
Exons	3653..3913, 3673..3915		

Seq. No.	51715	Seq. ID	OJ990401_02.0419.C10
Gene No.	109495	Strand	-
Start	306	End	1091
Name	OJ990401_02.0419.C10.o1.gs	Method	GENSCAN
Start	306	End	1091
GI	none	Score	.54
Exons	306..585, 587..753, 831..1091		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109496	Strand	+
Start	1412	End	3202
Name	OJ990401_02.0419.C11.o1.gs	Method	GENSCAN
Start	1412	End	3202
GI	none	Score	.66
Exons	1412..1480, 2111..2196, 3103..3202		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109497	Strand	-
Start	2832	End	5104
Name	OJ990401_02.0419.C11.o1.np	Method	AAT/NAP
Start	2832	End	5104

GI	862343	Score	142
Exons	2832..2909, 4928..5104		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi\|1092097\|prf\|\|2022314A granule cell marker protein [Mus musculus] gi\|1092098\|prf\|\|2022315A granule cell marker protein [Mus musculus]		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109498	Strand	-
Start	5253	End	10613
Name	OJ990401_02.0419.C11.o2.gs	Method	GENSCAN
Start	5253	End	10598
GI	none	Score	.51
Exons	5253..5426, 5512..5610, 6007..6210, 6307..6541, 6827..6992, 7854..7935, 8197..8307, 8409..8579, 8616..9131, 9324..9648, 9664..10598		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109498	Strand	-
Start	5253	End	10613
Name	OJ990401_02.0419.C11.o2.np	Method	AAT/NAP
Start	6350	End	10613
GI	4680204	Score	767
Exons	6350..6553, 8126..9110, 9204..10613		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109498	Strand	-
Start	5253	End	10613
Name	OJ990401_02.0419.C11.o3.np	Method	AAT/NAP
Start	9057	End	10613
GI	4680204	Score	626
Exons	9057..9110, 9204..10613		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109499	Strand	-
Start	11847	End	12354
Name	OJ990401_02.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	9552	End	9891
GI	none	Score	82
Exons	9552..9584, 9588..9728, 9589..9669, 9723..9890, 9742..9891		

Seq. No.	51716	Seq. ID	OJ990401_02.0419.C11
Gene No.	109499	Strand	-
Start	11847	End	12354
Name	OJ990401_02.0419.C11.o3.gs	Method	GENSCAN
Start	11847	End	12354
GI	none	Score	.62
Exons	11847..12036, 12255..12354		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109500	Strand	+
Start	1	End	1225
Name	OJ990401_02.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	1225
GI	342_1.R1084	Score	2030

Exons	1..1225		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1314
GI	6742729	Score	1796
Exons	1..1314		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o1.gs	Method	GENSCAN
Start	9	End	1193
GI	none	Score	.49
Exons	9..330, 496..1193		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	13	End	448
GI	none	Score	380
Exons	13..237, 26..442, 27..443, 32..448		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	86	End	400
GI	none	Score	129
Exons	86..400, 114..389		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	449	End	854
GI	none	Score	72
Exons	449..529, 450..530, 457..534, 562..765, 563..805, 603..785, 791..853, 804..854		

Seq. No.	51717	Seq. ID	OJ990401_02.0419.C12
Gene No.	109501	Strand	-
Start	1	End	1314
Name	OJ990401_02.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	993	End	1222
GI	none	Score	141
Exons	993..1199, 998..1222, 1060..1200		

Seq. No.	51718	Seq. ID	OJ990401_02.0419.C13
Gene No.	109502	Strand	-
Start	396	End	840

Name	OJ990401_02.0419.C13.o1.np	Method	AAT/NAP
Start	396	End	840
GI	553073	Score	167
Exons	396..840		
GI Descrip.	(M94481) reverse transcriptase [Zea mays]		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109503	Strand	+
Start	1	End	2064
Name	OJ990401_02.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	2064
GI	6063554	Score	511
Exons	1..66, 289..567, 685..907, 1231..1258, 1890..2064		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109503	Strand	+
Start	1	End	2064
Name	OJ990401_02.0419.C14.o1.gp	Method	AAT/GAP
Start	725	End	1461
GI	101153_1.R1084	Score	690
Exons	725..907, 1231..1461		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109504	Strand	+
Start	2426	End	2690
Name	OJ990401_02.0419.C14.o2.gp	Method	AAT/GAP
Start	2426	End	2690
GI	61605_3.R1084	Score	376
Exons	2426..2690		
GI Descrip.	'1402920/emb\|CAA66965\| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109505	Strand	+
Start	5851	End	7799
Name	OJ990401_02.0419.C14.o3.np	Method	AAT/NAP
Start	5851	End	7799
GI	4680186	Score	234
Exons	5851..5873, 7595..7799		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o2.np	Method	AAT/NAP
Start	2154	End	6066
GI	6983860	Score	616
Exons	2154..2194, 4854..5089, 5288..6066		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14

Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	5329	End	5628
GI	none	Score	70
Exons	5329..5628, 5525..5614		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	5509	End	5868
GI	none	Score	147
Exons	5509..5868, 5513..5866		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o2.gs	Method	GENSCAN
Start	5581	End	8296
GI	none	Score	.57
Exons	5581..6090, 6380..6474, 8215..8296		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o4.gp	Method	AAT/GAP
Start	7347	End	7728
GI	uC-osflcyp033a04b1	Score	667
Exons	7347..7728		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51719	Seq. ID	OJ990401_02.0419.C14
Gene No.	109506	Strand	-
Start	2154	End	8476
Name	OJ990401_02.0419.C14.o4.np	Method	AAT/NAP
Start	8195	End	8476
GI	6907087	Score	153
Exons	8195..8296, 8372..8476		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51720	Seq. ID	OJ990401_02.0419.C15
Gene No.	109507	Strand	+
Start	1	End	683
Name	OJ990401_02.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	683
GI	6630685	Score	877
Exons	1..683		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	51720	Seq. ID	OJ990401_02.0419.C15
Gene No.	109507	Strand	+
Start	1	End	683

Name	OJ990401_02.0419.C15.o1.gs	Method	GENSCAN
Start	196	End	558
GI	none	Score	.67
Exons	196..558		

Seq. No.	51720	Seq. ID	OJ990401_02.0419.C15
Gene No.	109508	Strand	+
Start	1959	End	3002
Name	OJ990401_02.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	63	End	692
GI	none	Score	727
Exons	63..542, 64..564, 376..561, 570..692, 573..686, 575..691		

Seq. No.	51720	Seq. ID	OJ990401_02.0419.C15
Gene No.	109508	Strand	+
Start	1959	End	3002
Name	OJ990401_02.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	64	End	543
GI	none	Score	243
Exons	64..414, 237..410, 436..543		

Seq. No.	51720	Seq. ID	OJ990401_02.0419.C15
Gene No.	109508	Strand	+
Start	1959	End	3002
Name	OJ990401_02.0419.C15.o2.gs	Method	GENSCAN
Start	1959	End	3002
GI	none	Score	.41
Exons	1959..3002		

Seq. No.	51721	Seq. ID	OJ990401_02.0419.C16
Gene No.	109509	Strand	+
Start	1	End	692
Name	OJ990401_02.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	692
GI	4680203	Score	411
Exons	1..32, 164..692		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51721	Seq. ID	OJ990401_02.0419.C16
Gene No.	109510	Strand	-
Start	188	End	632
Name	OJ990401_02.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	175	End	632
GI	none	Score	55
Exons	175..228, 176..244, 216..278, 242..280, 242..283, 261..284, 286..423, 290..349, 356..385, 382..450, 387..434, 390..470, 391..471, 395..472, 476..514, 482..541, 492..557, 522..632, 572..607		

Seq. No.	51721	Seq. ID	OJ990401_02.0419.C16
Gene No.	109510	Strand	-
Start	188	End	632
Name	OJ990401_02.0419.C16.o1.gs	Method	GENSCAN
Start	188	End	447
GI	none	Score	.57
Exons	188..326, 397..447		

Seq. No.	51722	Seq. ID	OJ990401_02.0419.C17
Gene No.	109511	Strand	+
Start	551	End	639
Name	OJ990401_02.0419.C17.o1.gs	Method	GENSCAN
Start	551	End	639
GI	none	Score	.69
Exons	551..639		

Seq. No.	51723	Seq. ID	OJ990401_02.0419.C18
Gene No.	109512	Strand	+
Start	371	End	1441
Name	OJ990401_02.0419.C18.o1.gs	Method	GENSCAN
Start	371	End	1441
GI	none	Score	.52
Exons	371..450, 1293..1441		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109513	Strand	+
Start	7036	End	8974
Name	OJ990401_02.0419.C19.o3.np	Method	AAT/NAP
Start	7036	End	8974
GI	6907087	Score	715
Exons	7036..7220, 7422..7601, 7633..8335, 8873..8974		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109514	Strand	-
Start	2162	End	2490
Name	OJ990401_02.0419.C19.o1.np	Method	AAT/NAP
Start	430	End	609
GI	7106512	Score	88
Exons	430..476, 549..609		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109514	Strand	-
Start	2162	End	2490
Name	OJ990401_02.0419.C19.o1.gs	Method	GENSCAN
Start	2162	End	2490
GI	none	Score	.82
Exons	2162..2399, 2405..2490		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109515	Strand	-
Start	2826	End	6676
Name	OJ990401_02.0419.C19.o2.np	Method	AAT/NAP
Start	2826	End	6676
GI	7106512	Score	2201
Exons	2826..3162, 3217..4504, 4951..6193, 6390..6543, 6616..6676		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109515	Strand	-

Start	2826	End	6676
Name	OJ990401_02.0419.C19.o3.gs	Method	GENSCAN
Start	5007	End	6433
GI	none	Score	.94
Exons	5007..5684, 6149..6433		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109516	Strand	-
Start	6830	End	6936
Name	OJ990401_02.0419.C19.o1.gp	Method	AAT/GAP
Start	6830	End	6936
GI	5816518	Score	151
Exons	6830..6936		
GI Descrip.	4521193/dbj\|AB013450.1\|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109517	Strand	-
Start	8867	End	10229
Name	OJ990401_02.0419.C19.o5.gs	Method	GENSCAN
Start	8867	End	9714
GI	none	Score	.51
Exons	8867..8971, 9109..9156, 9663..9714		

Seq. No.	51724	Seq. ID	OJ990401_02.0419.C19
Gene No.	109517	Strand	-
Start	8867	End	10229
Name	OJ990401_02.0419.C19.o4.np	Method	AAT/NAP
Start	9365	End	10229
GI	4680186	Score	208
Exons	9365..9566, 10167..10229		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51725	Seq. ID	OJ990401_02.0419.C20
Gene No.	109518	Strand	+
Start	1017	End	3141
Name	OJ990401_02.0419.C20.o1.gs	Method	GENSCAN
Start	1017	End	3141
GI	none	Score	.48
Exons	1017..1040, 2643..2732, 3040..3141		

Seq. No.	51725	Seq. ID	OJ990401_02.0419.C20
Gene No.	109519	Strand	-
Start	1554	End	4421
Name	OJ990401_02.0419.C20.o1.gp	Method	AAT/GAP
Start	1554	End	4421
GI	none	Score	1202
Exons	1554..1826, 3048..3113, 3859..3901, 4029..4073, 4148..4421		

Seq. No.	51725	Seq. ID	OJ990401_02.0419.C20
Gene No.	109519	Strand	-
Start	1554	End	4421
Name	OJ990401_02.0419.C20.o2.gs	Method	GENSCAN
Start	3887	End	3993
GI	none	Score	.9
Exons	3887..3993		

Seq. No.	51726	Seq. ID	OJ990401_02.0419.C22
Gene No.	109520	Strand	-
Start	108	End	1444
Name	OJ990401_02.0419.C22.o1.np	Method	AAT/NAP
Start	108	End	1444
GI	5852182	Score	388
Exons	108..436, 1409..1444		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	51726	Seq. ID	OJ990401_02.0419.C22
Gene No.	109520	Strand	-
Start	108	End	1444
Name	OJ990401_02.0419.C22.o1.gs	Method	GENSCAN
Start	246	End	1414
GI	none	Score	.41
Exons	246..436, 1406..1414		

Seq. No.	51727	Seq. ID	OJ990401_02.0419.C23
Gene No.	109521	Strand	+
Start	1522	End	2919
Name	OJ990401_02.0419.C23.o1.gs	Method	GENSCAN
Start	1522	End	2919
GI	none	Score	.73
Exons	1522..2919		

Seq. No.	51727	Seq. ID	OJ990401_02.0419.C23
Gene No.	109521	Strand	+
Start	1522	End	2919
Name	OJ990401_02.0419.C23.o1.np	Method	AAT/NAP
Start	1588	End	2821
GI	7485887	Score	333
Exons	1588..2237, 2289..2405, 2544..2821		
GI Descrip.	hypothetical protein F20M13.270 - Arabidopsis thaliana gi\|4467158\|emb\|CAB37527.1\| (AL035540) putative protein [Arabidopsis thaliana] gi\|7270854\|emb\|CAB80535.1\| (AL161593) putative protein [Arabidopsis thaliana]		

Seq. No.	51727	Seq. ID	OJ990401_02.0419.C23
Gene No.	109522	Strand	-
Start	2748	End	2915
Name	OJ990401_02.0419.C23.o1.gp	Method	AAT/GAP
Start	2748	End	2915
GI	uC-osflcyp032e05a1	Score	305
Exons	2748..2915		
GI Descrip.	'4521193/dbj\|AB013450.1\|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	51728	Seq. ID	OJ990401_02.0419.C24
Gene No.	109523	Strand	+
Start	1	End	2254
Name	OJ990401_02.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	2254
GI	5042463	Score	160
Exons	1..85, 1066..1251, 1916..2070, 2123..2254		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51729	Seq. ID	OJ990401_02.0419.C25

Gene No.	109524	Strand	+
Start	286	End	414
Name	OJ990401_02.0419.C25.o1.gs	Method	GENSCAN
Start	286	End	414
GI	none	Score	.81
Exons	286..414		

Seq. No.	51730	Seq. ID	OJ990401_02.0419.C26
Gene No.	109525	Strand	-
Start	611	End	885
Name	OJ990401_02.0419.C26.o1.np	Method	AAT/NAP
Start	611	End	885
GI	7340868	Score	131
Exons	611..885		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51731	Seq. ID	OJ990401_02.0419.C27
Gene No.	109526	Strand	-
Start	108	End	214
Name	OJ990401_02.0419.C27.o1.gp	Method	AAT/GAP
Start	108	End	214
GI	5816518	Score	148
Exons	108..214		
GI Descrip.	4521193/dbj\|AB013450.1\|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	51731	Seq. ID	OJ990401_02.0419.C27
Gene No.	109527	Strand	-
Start	416	End	491
Name	OJ990401_02.0419.C27.o1.gs	Method	GENSCAN
Start	416	End	491
GI	none	Score	.66
Exons	416..491		

Seq. No.	51732	Seq. ID	OJ990401_02.0419.C28
Gene No.	109528	Strand	+
Start	1	End	1754
Name	OJ990401_02.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	1754
GI	5852181	Score	83
Exons	1..37, 458..594, 1706..1754		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	934
GI	4006913	Score	323
Exons	1..191, 288..389, 467..516, 600..693, 899..934		
GI Descrip.	(Z99708) hypothetical protein [Arabidopsis thaliana] gi\|7270597\|emb\|CAB80315.1\| (AL161589) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934

Name	OJ990401_02.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	102	End	702
GI	none	Score	111
Exons	102..197, 147..215, 285..392, 588..638, 595..639, 624..689,	287..391, 463..594, 467..514, 625..702	

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	104	End	852
GI	none	Score	83
Exons	104..190, 113..178, 114..197, 452..520, 467..514, 588..692,	115..210, 285..392, 287..391, 595..696, 790..852, 796..852	

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.gp	Method	AAT/GAP
Start	114	End	184
GI	LIB3434-045-P1-K1-E12	Score	112
Exons	114..184		
GI Descrip.	'4874285/gb\|AAD31348.1\|AC007212_4 6.0e-49 (AC007212) putative phosphatidylinositol/phophatidylcholine transfer protein [Arabidopsis thaliana]'		

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	114	End	511
GI	none	Score	105
Exons	114..215, 123..209, 285..392,	286..396, 287..391, 467..511	

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.gs	Method	GENSCAN
Start	117	End	693
GI	none	Score	.71
Exons	117..191, 288..389, 467..516,	600..693	

Seq. No.	51733	Seq. ID	OJ990401_02.0419.C29
Gene No.	109529	Strand	+
Start	1	End	934
Name	OJ990401_02.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	285	End	702
GI	none	Score	165
Exons	285..392, 299..391, 467..511, 625..702	588..623, 598..636, 624..692,	

Seq. No.	51734	Seq. ID	OJ990401_02.0419.C30
Gene No.	109530	Strand	+
Start	1	End	962
Name	OJ990401_02.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	962
GI	6907087	Score	369

Exons	1..309, 861..962		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	51734	Seq. ID	OJ990401_02.0419.C30
Gene No.	109530	Strand	+
Start	1	End	962
Name	OJ990401_02.0419.C30.o1.gs	Method	GENSCAN
Start	119	End	442
GI	none	Score	.78
Exons	119..309, 315..442		
Seq. No.	51734	Seq. ID	OJ990401_02.0419.C30
Gene No.	109531	Strand	-
Start	855	End	961
Name	OJ990401_02.0419.C30.o2.gs	Method	GENSCAN
Start	855	End	961
GI	none	Score	.91
Exons	855..961		
Seq. No.	51735	Seq. ID	OJ990401_02.0419.C31
Gene No.	109532	Strand	-
Start	823	End	1988
Name	OJ990401_02.0419.C31.o1.np	Method	AAT/NAP
Start	823	End	1988
GI	4006913	Score	241
Exons	823..909, 1067..1408, 1957..1988		
GI Descrip.	(Z99708) hypothetical protein [Arabidopsis thaliana] gi\|7270597\|emb\|CAB80315.1\| (AL161589) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	51735	Seq. ID	OJ990401_02.0419.C31
Gene No.	109532	Strand	-
Start	823	End	1988
Name	OJ990401_02.0419.C31.o1.gs	Method	GENSCAN
Start	835	End	1626
GI	none	Score	.83
Exons	835..909, 1067..1425, 1521..1626		
Seq. No.	51735	Seq. ID	OJ990401_02.0419.C31
Gene No.	109532	Strand	-
Start	823	End	1988
Name	OJ990401_02.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	859	End	1653
GI	none	Score	60
Exons	859..912, 860..907, 971..1240, 1059..1283, 1062..1259, 1067..1312, 1078..1293, 1324..1419, 1325..1426, 1326..1427, 1522..1548, 1523..1636, 1537..1653, 1540..1632, 1559..1636		
Seq. No.	51735	Seq. ID	OJ990401_02.0419.C31
Gene No.	109532	Strand	-
Start	823	End	1988
Name	OJ990401_02.0419.C31.o1.gp	Method	AAT/GAP
Start	1087	End	1327
GI	none	Score	438
Exons	1087..1327		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109533	Strand	+
Start	2189	End	3731
Name	OJ990401_02.0419.C32.o2.gs	Method	GENSCAN
Start	2189	End	3731
GI	none	Score	.52
Exons	2189..2244, 3353..3731		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109534	Strand	-
Start	1	End	1271
Name	OJ990401_02.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	910
GI	4567235	Score	674
Exons	1..332, 436..535, 621..910		
GI Descrip.	(AC007119) putative phosphatidylinositol/phophatidylcholine transfer protein [Arabidopsis thaliana]		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109534	Strand	-
Start	1	End	1271
Name	OJ990401_02.0419.C32.o1.gp	Method	AAT/GAP
Start	94	End	332
GI	LIB3434-045-P1-K1-E12	Score	412
Exons	94..332		
GI Descrip.	'4874285/gb\|AAD31348.1\|AC007212_4 6.0e-49 (AC007212) putative phosphatidylinositol/phophatidylcholine transfer protein [Arabidopsis thaliana]'		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109534	Strand	-
Start	1	End	1271
Name	OJ990401_02.0419.C32.o1.gs	Method	GENSCAN
Start	171	End	1222
GI	none	Score	.59
Exons	171..332, 707..903, 1177..1222		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109534	Strand	-
Start	1	End	1271
Name	OJ990401_02.0419.C32.o2.gp	Method	AAT/GAP
Start	441	End	1271
GI	uC-osf1M202095g06b1	Score	824
Exons	441..535, 621..903, 1177..1271		
GI Descrip.	'4914429/emb\|CAB43632.1\| 2.0e-29 (AL050351) SEC14-like protein [Arabidopsis thaliana]'		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	94	End	529
GI	none	Score	176
Exons	94..297, 94..297, 96..338, 96..341, 434..529, 436..525		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32

Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	96	End	1222
GI	none	Score	311
Exons	96..335, 96..335, 188..340, 422..535, 429..527, 434..538, 436..537, 620..916, 622..870, 732..917, 850..933, 1177..1218, 1178..1222		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	99	End	472
GI	none	Score	85
Exons	99..209, 99..335, 112..297, 237..335, 242..340, 434..472, 436..471		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	99	End	311
GI	none	Score	166
Exons	99..311, 100..282		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o2.tc	Method	TBLASTX:Cress
Start	475	End	860
GI	none	Score	59
Exons	475..537, 477..536, 479..538, 620..754, 620..772, 777..860, 783..854		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o2.ts	Method	TBLASTX:Soybean
Start	620	End	875
GI	none	Score	37
Exons	620..787, 688..738, 768..875, 783..875		

Seq. No.	51736	Seq. ID	OJ990401_02.0419.C32
Gene No.	109535	Strand	-
Start	4001	End	4210
Name	OJ990401_02.0419.C32.o3.gs	Method	GENSCAN
Start	4001	End	4210
GI	none	Score	.93
Exons	4001..4210		

Seq. No.	51737	Seq. ID	OJ990401_02.0419.C33
Gene No.	109536	Strand	+
Start	764	End	1160
Name	OJ990401_02.0419.C33.o1.gs	Method	GENSCAN
Start	764	End	1129
GI	none	Score	.59

Exons	764..1129		
Seq. No.	51737	Seq. ID	OJ990401_02.0419.C33
Gene No.	109536	Strand	+
Start	764	End	1160
Name	OJ990401_02.0419.C33.o1.np	Method	AAT/NAP
Start	764	End	1160
GI	7248393	Score	299
Exons	764..1160		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109537	Strand	+
Start	1	End	10025
Name	OJ990401_02.0419.C34.o2.np	Method	AAT/NAP
Start	1	End	10025
GI	5852180	Score	141
Exons	1..25, 8309..8375, 9350..9539, 9865..10025		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109537	Strand	+
Start	1	End	10025
Name	OJ990401_02.0419.C34.o1.gs	Method	GENSCAN
Start	360	End	1338
GI	none	Score	.43
Exons	360..536, 588..1038, 1190..1338		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109537	Strand	+
Start	1	End	10025
Name	OJ990401_02.0419.C34.o1.np	Method	AAT/NAP
Start	2744	End	7510
GI	4512618	Score	566
Exons	2744..2780, 6407..7510		
GI Descrip.	(AC004793) Strong similarity to gi\|3600044 T12H20.12 protease homolog from Arabidopsis thaliana BAC gb\|AF080119 and is a member of the reverse transcriptase family PF\|00078.		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109537	Strand	+
Start	1	End	10025
Name	OJ990401_02.0419.C34.o3.gs	Method	GENSCAN
Start	7136	End	7525
GI	none	Score	.43
Exons	7136..7525		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109538	Strand	-
Start	2601	End	6798
Name	OJ990401_02.0419.C34.o2.gs	Method	GENSCAN
Start	2601	End	6798
GI	none	Score	.76
Exons	2601..2718, 2873..2976, 3051..3090, 3371..3648, 4049..4151, 5910..6024, 6390..6546, 6685..6798		
Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34

Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	6436	End	6858
GI	none	Score	140
Exons	6436..6582, 6436..6570, 6576..6815, 6583..6855, 6583..6858		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	6793	End	7149
GI	none	Score	143
Exons	6793..6954, 6964..7149, 6966..7112		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o3.tm	Method	TBLASTX:Maize
Start	6859	End	7176
GI	none	Score	305
Exons	6859..7176, 6870..7112, 6877..7173		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	6958	End	7450
GI	none	Score	112
Exons	6958..7146, 7187..7321, 7337..7450		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	6994	End	7453
GI	none	Score	96
Exons	6994..7143, 7196..7453		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	7209	End	7453
GI	none	Score	141
Exons	7209..7448, 7214..7453, 7220..7450		

Seq. No.	51738	Seq. ID	OJ990401_02.0419.C34
Gene No.	109539	Strand	-
Start	9312	End	10378
Name	OJ990401_02.0419.C34.o4.gs	Method	GENSCAN
Start	9312	End	10378
GI	none	Score	.44
Exons	9312..9315, 9475..9777, 9877..10051, 10323..10378		

Seq. No.	51739	Seq. ID	OJ990401_02.0419.C35
Gene No.	109540	Strand	+

Start	30	End	2683
Name	OJ990401_02.0419.C35.o1.gs	Method	GENSCAN
Start	30	End	2683
GI	none	Score	.82
Exons	30..117, 687..973, 1075..1233, 2654..2683		

Seq. No.	51739	Seq. ID	OJ990401_02.0419.C35
Gene No.	109540	Strand	+
Start	30	End	2683
Name	OJ990401_02.0419.C35.o1.np	Method	AAT/NAP
Start	645	End	2037
GI	7523667	Score	49
Exons	645..779, 1888..2037		
GI Descrip.	(AC006423) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51740	Seq. ID	OJ990401_02.0419.C36
Gene No.	109541	Strand	+
Start	3056	End	7742
Name	OJ990401_02.0419.C36.o1.np	Method	AAT/NAP
Start	3056	End	7742
GI	1839188	Score	32
Exons	3056..3108, 5598..5695, 5723..5898, 7711..7742		
GI Descrip.	(U86081) root hair defective 3 [Arabidopsis thaliana]		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.gp	Method	AAT/GAP
Start	1390	End	2816
GI	17442_1.R1084	Score	1367
Exons	1390..1923, 2612..2816		
GI Descrip.	'118304/sp\|P19572\|DCDA_PSEAE 6.0e-69 DIAMINOPIMELATE DECARBOXYLASE (DAP DECARBOXYLASE) >gi_77626_pir__A31133 diaminopimelate decarboxylase (EC 4.1.1.20) - Pseudomonas aeruginosa'		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.gs	Method	GENSCAN
Start	1421	End	2786
GI	none	Score	.96
Exons	1421..1923, 2612..2786		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	1625	End	2814
GI	none	Score	408
Exons	1625..1933, 1625..1933, 2609..2788, 2610..2789, 2773..2814		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	1630	End	1914

GI	none	Score	367
Exons	1630..1797, 1631..1912, 1852..1914		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.np	Method	AAT/NAP
Start	1673	End	2786
GI	7436507	Score	179
Exons	1673..1923, 2612..2786		
GI Descrip.	diaminopimelate decarboxylase - Helicobacter pylori (strain J99) gi\|4154810\|gb\|AAD05866.1\| (AE001465) DIAMINOPIMELATE DECARBOXYLASE [Helicobacter pylori J99]		

Seq. No.	51741	Seq. ID	OJ990401_02.0419.C37
Gene No.	109542	Strand	+
Start	1390	End	2816
Name	OJ990401_02.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	1712	End	2789
GI	none	Score	333
Exons	1712..1933, 1712..1924, 2609..2788, 2610..2789		

Seq. No.	51742	Seq. ID	OJ990401_02.0419.C38
Gene No.	109543	Strand	+
Start	377	End	1450
Name	OJ990401_02.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	336	End	537
GI	none	Score	145
Exons	336..527, 369..506, 370..528, 373..537, 374..532		

Seq. No.	51742	Seq. ID	OJ990401_02.0419.C38
Gene No.	109543	Strand	+
Start	377	End	1450
Name	OJ990401_02.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	370	End	532
GI	none	Score	69
Exons	370..453, 373..528, 374..532		

Seq. No.	51742	Seq. ID	OJ990401_02.0419.C38
Gene No.	109543	Strand	+
Start	377	End	1450
Name	OJ990401_02.0419.C38.o1.gp	Method	AAT/GAP
Start	377	End	1450
GI	17442_1.R1084	Score	273
Exons	377..542, 1417..1450		
GI Descrip.	'118304/sp\|P19572\|DCDA_PSEAE 6.0e-69 DIAMINOPIMELATE DECARBOXYLASE (DAP DECARBOXYLASE) >gi_77626_pir__A31133 diaminopimelate decarboxylase (EC 4.1.1.20) - Pseudomonas aeruginosa'		

Seq. No.	51742	Seq. ID	OJ990401_02.0419.C38
Gene No.	109543	Strand	+
Start	377	End	1450
Name	OJ990401_02.0419.C38.o1.gs	Method	GENSCAN
Start	377	End	526
GI	none	Score	.71
Exons	377..526		

Seq. No.	51743	Seq. ID	OJ990401_02.0419.C39
Gene No.	109544	Strand	+
Start	170	End	485
Name	OJ990401_02.0419.C39.o1.gs	Method	GENSCAN
Start	170	End	485
GI	none	Score	.67
Exons	170..286, 459..485		

Seq. No.	51744	Seq. ID	OJ990401_02.0419.C40
Gene No.	109545	Strand	+
Start	704	End	841
Name	OJ990401_02.0419.C40.o1.gs	Method	GENSCAN
Start	704	End	841
GI	none	Score	.95
Exons	704..841		

Seq. No.	51745	Seq. ID	OJ990401_02.0419.C42
Gene No.	109546	Strand	+
Start	447	End	498
Name	OJ990401_02.0419.C42.o1.gs	Method	GENSCAN
Start	447	End	498
GI	none	Score	.47
Exons	447..498		

Seq. No.	51746	Seq. ID	OJ990401_02.0419.C43
Gene No.	109547	Strand	-
Start	1	End	594
Name	OJ990401_02.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	594
GI	6630685	Score	586
Exons	1..594		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	51746	Seq. ID	OJ990401_02.0419.C43
Gene No.	109547	Strand	-
Start	1	End	594
Name	OJ990401_02.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	85	End	484
GI	none	Score	342
Exons	85..483, 86..484		

Seq. No.	51746	Seq. ID	OJ990401_02.0419.C43
Gene No.	109547	Strand	-
Start	1	End	594
Name	OJ990401_02.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	85	End	510
GI	none	Score	109
Exons	85..336, 86..340, 338..364, 340..363, 376..510, 395..502		

Seq. No.	51746	Seq. ID	OJ990401_02.0419.C43
Gene No.	109547	Strand	-
Start	1	End	594
Name	OJ990401_02.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	142	End	345
GI	none	Score	179

Exons	142..345		
Seq. No.	51747	Seq. ID	OJ990401_02.0419.C44
Gene No.	109548	Strand	+
Start	1	End	879
Name	OJ990401_02.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	879
GI	4680186	Score	331
Exons	1..52, 679..879		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	51747	Seq. ID	OJ990401_02.0419.C44
Gene No.	109549	Strand	-
Start	431	End	812
Name	OJ990401_02.0419.C44.o1.gp	Method	AAT/GAP
Start	431	End	812
GI	uC-osflcyp033a04b1	Score	663
Exons	431..812		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	51748	Seq. ID	OJ990831_01.0419.C6
Gene No.	109550	Strand	+
Start	435	End	1359
Name	OJ990831_01.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	433	End	1155
GI	none	Score	217
Exons	433..549, 434..550, 435..581, 872..943, 874..942, 884..943, 1039..1155, 1055..1150, 1056..1151		
Seq. No.	51748	Seq. ID	OJ990831_01.0419.C6
Gene No.	109550	Strand	+
Start	435	End	1359
Name	OJ990831_01.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	433	End	1155
GI	none	Score	69
Exons	433..552, 433..549, 434..550, 435..581, 872..943, 880..942, 1039..1155, 1056..1154		
Seq. No.	51748	Seq. ID	OJ990831_01.0419.C6
Gene No.	109550	Strand	+
Start	435	End	1359
Name	OJ990831_01.0419.C6.o1.gs	Method	GENSCAN
Start	435	End	1155
GI	none	Score	.65
Exons	435..551, 875..943, 1063..1155		
Seq. No.	51748	Seq. ID	OJ990831_01.0419.C6
Gene No.	109550	Strand	+
Start	435	End	1359
Name	OJ990831_01.0419.C6.o1.np	Method	AAT/NAP
Start	435	End	1359
GI	2288999	Score	316
Exons	435..551, 875..943, 1063..1155, 1340..1359		
GI Descrip.	(AC002335) putative electron transfer flavoprotein ubiquinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109551	Strand	+
Start	1	End	432
Name	OJ990831_01.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	432
GI	3768959	Score	569
Exons	1..56, 145..432		
GI Descrip.	2288999 5.0e-16 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109551	Strand	+
Start	1	End	432
Name	OJ990831_01.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	225
GI	2288999	Score	176
Exons	1..56, 145..225		
GI Descrip.	(AC002335) putative electron transfer flavoprotein ubiquinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109551	Strand	+
Start	1	End	432
Name	OJ990831_01.0419.C7.o1.gs	Method	GENSCAN
Start	145	End	228
GI	none	Score	.78
Exons	145..228		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109552	Strand	+
Start	2230	End	2371
Name	OJ990831_01.0419.C7.o3.gs	Method	GENSCAN
Start	2230	End	2371
GI	none	Score	.71
Exons	2230..2371		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109553	Strand	-
Start	2242	End	2455
Name	OJ990831_01.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	3	End	234
GI	none	Score	79
Exons	3..56, 129..209, 136..234, 136..228		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109553	Strand	-
Start	2242	End	2455
Name	OJ990831_01.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	3	End	236
GI	none	Score	98
Exons	3..56, 4..57, 5..61, 37..87, 128..190, 129..227, 136..228, 142..228, 144..236		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109553	Strand	-
Start	2242	End	2455
Name	OJ990831_01.0419.C7.o1.ts	Method	TBLASTX:Soybean

Start	6	End	231
GI	none	Score	70
Exons	6..56, 129..227, 136..231		

Seq. No.	51749	Seq. ID	OJ990831_01.0419.C7
Gene No.	109553	Strand	-
Start	2242	End	2455
Name	OJ990831_01.0419.C7.o2.gp	Method	AAT/GAP
Start	2242	End	2455
GI	3761197	Score	399
Exons	2242..2455		

Seq. No.	51750	Seq. ID	OJ990831_01.0419.C8
Gene No.	109554	Strand	+
Start	2928	End	3398
Name	OJ990831_01.0419.C8.o1.gp	Method	AAT/GAP
Start	2928	End	3398
GI	8547_1.R1084	Score	865
Exons	2928..3398		
GI Descrip.	'2288999 5.0e-16 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]'		

Seq. No.	51750	Seq. ID	OJ990831_01.0419.C8
Gene No.	109555	Strand	-
Start	102	End	342
Name	OJ990831_01.0419.C8.o1.gs	Method	GENSCAN
Start	102	End	342
GI	none	Score	.67
Exons	102..342		

Seq. No.	51750	Seq. ID	OJ990831_01.0419.C8
Gene No.	109556	Strand	-
Start	4292	End	4813
Name	OJ990831_01.0419.C8.o2.gs	Method	GENSCAN
Start	4292	End	4813
GI	none	Score	.58
Exons	4292..4308, 4777..4813		

Seq. No.	51751	Seq. ID	OJ990831_01.0419.C9
Gene No.	109557	Strand	-
Start	93	End	183
Name	OJ990831_01.0419.C9.o1.gs	Method	GENSCAN
Start	93	End	183
GI	none	Score	.5
Exons	93..183		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109558	Strand	+
Start	1491	End	2135
Name	OJ990831_01.0419.C11.o1.gp	Method	AAT/GAP
Start	1491	End	2135
GI	none	Score	1249
Exons	1491..2135		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109559	Strand	-
Start	2096	End	3397

Name	OJ990831_01.0419.C11.o1.gs	Method	GENSCAN
Start	2096	End	3338
GI	none	Score	.79
Exons	2096..2479, 2614..3338		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109559	Strand	-
Start	2096	End	3397
Name	OJ990831_01.0419.C11.o1.np	Method	AAT/NAP
Start	2099	End	3397
GI	283004	Score	611
Exons	2099..2154, 2216..2369, 2436..2482, 2614..2751, 2821..3397		
GI Descrip.	DNA-binding protein Gt-2 - rice gi\|20249\|emb\|CAA48328\| (X68261) gt-2 [Oryza sativa]		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109559	Strand	-
Start	2096	End	3397
Name	OJ990831_01.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	2899	End	3172
GI	none	Score	144
Exons	2899..3171, 2924..3169, 2953..3171, 3008..3172		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109559	Strand	-
Start	2096	End	3397
Name	OJ990831_01.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2899	End	3171
GI	none	Score	250
Exons	2899..3171, 2924..3169		

Seq. No.	51752	Seq. ID	OJ990831_01.0419.C11
Gene No.	109559	Strand	-
Start	2096	End	3397
Name	OJ990831_01.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	2899	End	3172
GI	none	Score	190
Exons	2899..3171, 2924..3172		

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	1372
GI	43338_1.R1084	Score	1071
Exons	1..296, 1017..1372		
GI Descrip.	'283004/pir\|\|S28030 3.0e-42 DNA-binding protein Gt-2 - rice >gi_20249_emb_CAA48328_ (X68261) gt-2 [Oryza sativa]'		

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1423
GI	283004	Score	463
Exons	1..296, 1017..1423		
GI Descrip.	DNA-binding protein Gt-2 - rice gi\|20249\|emb\|CAA48328\| (X68261)		

gt-2 [Oryza sativa]

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.gs	Method	GENSCAN
Start	56	End	2362
GI	none	Score	.54
Exons	56..296, 1017..1108, 1241..1508, 2355..2362		

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	59	End	313
GI	none	Score	60
Exons	59..130, 60..131, 131..313, 132..299		

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	65	End	1126
GI	none	Score	140
Exons	65..112, 89..322, 150..326, 191..280, 204..281, 1014..1121, 1016..1126, 1019..1126		

Seq. No.	51753	Seq. ID	OJ990831_01.0419.C12
Gene No.	109560	Strand	-
Start	1	End	2362
Name	OJ990831_01.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	146	End	1126
GI	none	Score	155
Exons	146..313, 150..314, 1014..1121, 1016..1126		

Seq. No.	51754	Seq. ID	OJ990831_01.0419.C14
Gene No.	109561	Strand	-
Start	484	End	1665
Name	OJ990831_01.0419.C14.o1.gs	Method	GENSCAN
Start	484	End	1665
GI	none	Score	.84
Exons	484..627, 1612..1665		

Seq. No.	51755	Seq. ID	OJ990831_01.0419.C16
Gene No.	109562	Strand	+
Start	1268	End	1441
Name	OJ990831_01.0419.C16.o1.gs	Method	GENSCAN
Start	1268	End	1441
GI	none	Score	.84
Exons	1268..1441		

Seq. No.	51756	Seq. ID	OJ990831_01.0419.C17
Gene No.	109563	Strand	-
Start	147	End	1804
Name	OJ990831_01.0419.C17.o1.gs	Method	GENSCAN
Start	147	End	1804
GI	none	Score	.51

Exons	147..252, 619..710, 1449..1655, 1724..1804		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.gs	Method	GENSCAN
Start	824	End	1362
GI	none	Score	.78
Exons	824..1362		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.np	Method	AAT/NAP
Start	824	End	1391
GI	5042429	Score	301
Exons	824..1391		
GI Descrip.	(AC006193) Putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	983	End	1387
GI	none	Score	131
Exons	983..1141, 989..1141, 1145..1336, 1346..1387		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	983	End	1324
GI	none	Score	60
Exons	983..1324, 998..1054, 1061..1141, 1184..1324		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	992	End	1388
GI	none	Score	402
Exons	992..1330, 992..1327, 1021..1329, 1209..1343, 1300..1386, 1319..1387, 1359..1388		
Seq. No.	51757	Seq. ID	OJ990831_01.0419.C20
Gene No.	109564	Strand	+
Start	824	End	1391
Name	OJ990831_01.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	1004	End	1312
GI	none	Score	121
Exons	1004..1138, 1145..1312		
Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109565	Strand	+
Start	1	End	4769
Name	OJ990831_01.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	3592

GI	2583130	Score	1552
Exons	1..3592		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109565	Strand	+
Start	1	End	4769
Name	OJ990831_01.0419.C21.o1.gs	Method	GENSCAN
Start	386	End	3595
GI	none	Score	.85
Exons	386..1985, 2361..3595		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109565	Strand	+
Start	1	End	4769
Name	OJ990831_01.0419.C21.o2.np	Method	AAT/NAP
Start	2660	End	4759
GI	7487489	Score	123
Exons	2660..3001, 4719..4759		
GI Descrip.	hypothetical protein T27I1.2 - Arabidopsis thaliana gi\|3540192\|gb\|AAC34342.1\| (AC004122) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109565	Strand	+
Start	1	End	4769
Name	OJ990831_01.0419.C21.o2.gs	Method	GENSCAN
Start	4443	End	4769
GI	none	Score	.64
Exons	4443..4567, 4745..4769		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o3.tw	Method	TBLASTX:Wheat
Start	869	End	1132
GI	none	Score	256
Exons	869..1132, 925..1122		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1025	End	1657
GI	none	Score	123
Exons	1025..1219, 1208..1492, 1225..1437, 1526..1657		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	1133	End	1512
GI	none	Score	69
Exons	1133..1183, 1135..1173, 1178..1495, 1204..1512		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21

Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	1744	End	2133
GI	none	Score	347
Exons	1744..2133, 1745..2131		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	1805	End	2178
GI	none	Score	287
Exons	1805..1915, 1814..2176, 1966..2178		

Seq. No.	51758	Seq. ID	OJ990831_01.0419.C21
Gene No.	109566	Strand	-
Start	5157	End	5821
Name	OJ990831_01.0419.C21.o3.gs	Method	GENSCAN
Start	5157	End	5821
GI	none	Score	.74
Exons	5157..5259, 5492..5633, 5725..5821		

Seq. No.	51759	Seq. ID	OJ990831_01.0419.C22
Gene No.	109567	Strand	+
Start	22	End	424
Name	OJ990831_01.0419.C22.o1.gs	Method	GENSCAN
Start	22	End	424
GI	none	Score	.52
Exons	22..96, 392..424		

Seq. No.	51759	Seq. ID	OJ990831_01.0419.C22
Gene No.	109568	Strand	-
Start	2324	End	2715
Name	OJ990831_01.0419.C22.o2.gs	Method	GENSCAN
Start	2324	End	2715
GI	none	Score	.55
Exons	2324..2405, 2687..2715		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109569	Strand	+
Start	204	End	530
Name	OJ990831_01.0419.C23.o1.gp	Method	AAT/GAP
Start	204	End	530
GI	794_1.R1084	Score	600
Exons	204..530		
GI Descrip.	'2570497 1.0e-69 (AF022731) H protein subunit of glycine decarboxylase [Oryza sativa]'		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109569	Strand	+
Start	204	End	530
Name	OJ990831_01.0419.C23.o1.gs	Method	GENSCAN
Start	205	End	330
GI	none	Score	1
Exons	205..330		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109569	Strand	+
Start	204	End	530
Name	OJ990831_01.0419.C23.o1.np	Method	AAT/NAP
Start	205	End	330
GI	121075	Score	139
Exons	205..330		
GI Descrip.	GLYCINE CLEAVAGE SYSTEM H PROTEIN PRECURSOR gi\|166725\|gb\|AAA32802.1\| (M82921) H-Protein precursor [Arabidopsis thaliana] gi\|861215\|gb\|AAA87942.1\| (U27144) glycine decarboxylase complex H-protein precursor [Arabidopsis thaliana] gi\|3608151\|gb\|AAC36184.1\| (AC005314) glycine decarboxylase complex H-protein [Arabidopsis thaliana] gi\|445119\|prf\|\|1908425A Gly decarboxylas		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109570	Strand	+
Start	1140	End	2560
Name	OJ990831_01.0419.C23.o2.gs	Method	GENSCAN
Start	1140	End	2560
GI	none	Score	.65
Exons	1140..1209, 1271..1323, 2312..2560		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109571	Strand	+
Start	3149	End	3663
Name	OJ990831_01.0419.C23.o2.gp	Method	AAT/GAP
Start	3149	End	3663
GI	none	Score	1009
Exons	3149..3663		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-
Start	3311	End	3928
Name	OJ990831_01.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	178	End	354
GI	none	Score	132
Exons	178..246, 204..305, 204..308, 205..354		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-
Start	3311	End	3928
Name	OJ990831_01.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	204	End	359
GI	none	Score	74
Exons	204..302, 204..359, 205..324, 269..358		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-
Start	3311	End	3928
Name	OJ990831_01.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	204	End	331
GI	none	Score	206
Exons	204..308, 205..330, 272..331		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-

Start	3311	End	3928
Name	OJ990831_01.0419.C23.o3.gs	Method	GENSCAN
Start	3311	End	3793
GI	none	Score	.83
Exons	3311..3793		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-
Start	3311	End	3928
Name	OJ990831_01.0419.C23.o2.np	Method	AAT/NAP
Start	3328	End	3928
GI	7488254	Score	300
Exons	3328..3823, 3851..3928		
GI Descrip.	protein kinase homolog F24G24.190 - Arabidopsis thaliana gi\|4538968\|emb\|CAB39792.1\| (AL049488) putative protein kinase [Arabidopsis thaliana] gi\|7267736\|emb\|CAB78162.1\| (AL161517) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	51760	Seq. ID	OJ990831_01.0419.C23
Gene No.	109572	Strand	-
Start	3311	End	3928
Name	OJ990831_01.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	3539	End	3806
GI	none	Score	278
Exons	3539..3796, 3576..3806		

Seq. No.	51761	Seq. ID	OJ990831_01.0419.C24
Gene No.	109573	Strand	+
Start	74	End	935
Name	OJ990831_01.0419.C24.o1.gs	Method	GENSCAN
Start	74	End	935
GI	none	Score	.53
Exons	74..358, 820..935		

Seq. No.	51761	Seq. ID	OJ990831_01.0419.C24
Gene No.	109574	Strand	-
Start	1	End	272
Name	OJ990831_01.0419.C24.o1.gp	Method	AAT/GAP
Start	1	End	272
GI	701523	Score	504
Exons	1..272		

Seq. No.	51762	Seq. ID	OJ990831_01.0419.C28
Gene No.	109575	Strand	-
Start	215	End	1213
Name	OJ990831_01.0419.C28.o1.np	Method	AAT/NAP
Start	215	End	1213
GI	2288999	Score	341
Exons	215..338, 458..524, 635..684, 837..961, 1166..1213		
GI Descrip.	(AC002335) putative electron transfer flavoprotein ubiquinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	51762	Seq. ID	OJ990831_01.0419.C28
Gene No.	109575	Strand	-
Start	215	End	1213
Name	OJ990831_01.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	216	End	926

GI	none	Score	100
Exons	216..353, 252..341, 452..526, 459..518, 634..684, 635..685, 636..686, 822..926, 825..926		

Seq. No.	51762	Seq. ID	OJ990831_01.0419.C28
Gene No.	109575	Strand	-
Start	215	End	1213
Name	OJ990831_01.0419.C28.o1.gs	Method	GENSCAN
Start	259	End	1175
GI	none	Score	.88
Exons	259..338, 635..684, 837..961, 1166..1175		

Seq. No.	51763	Seq. ID	OJ990831_01.0419.C29
Gene No.	109576	Strand	-
Start	1	End	1366
Name	OJ990831_01.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	1366
GI	2288999	Score	381
Exons	1..47, 154..260, 742..818, 955..1366		
GI Descrip.	(AC002335) putative electron transfer flavoprotein ubiquinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	51763	Seq. ID	OJ990831_01.0419.C29
Gene No.	109576	Strand	-
Start	1	End	1366
Name	OJ990831_01.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	1	End	1111
GI	none	Score	65
Exons	1..48, 2..49, 2..49, 154..258, 156..260, 741..854, 741..818, 742..819, 743..874, 950..1111, 951..1031, 953..1081		

Seq. No.	51763	Seq. ID	OJ990831_01.0419.C29
Gene No.	109576	Strand	-
Start	1	End	1366
Name	OJ990831_01.0419.C29.o1.gp	Method	AAT/GAP
Start	147	End	1206
GI	uC-osroM202028h10b1	Score	769
Exons	147..260, 742..818, 955..1206		
GI Descrip.	'2288999 3.0e-28 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]'		

Seq. No.	51763	Seq. ID	OJ990831_01.0419.C29
Gene No.	109576	Strand	-
Start	1	End	1366
Name	OJ990831_01.0419.C29.o1.gs	Method	GENSCAN
Start	721	End	1201
GI	none	Score	.93
Exons	721..818, 955..1201		

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.gp	Method	AAT/GAP
Start	25	End	1459
GI	794_1.R1084	Score	855
Exons	25..291, 652..740, 1269..1459		
GI Descrip.	'2570497 1.0e-69 (AF022731) H protein subunit of glycine		

decarboxylase [Oryza sativa]'

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	145	End	1443
GI	none	Score	86
Exons	145..282, 183..305, 648..740, 650..736, 1250..1369, 1260..1370, 1369..1443, 1371..1442		

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	182	End	1449
GI	none	Score	127
Exons	182..289, 183..290, 183..314, 184..291, 650..739, 651..740, 652..741, 652..756, 659..757, 1260..1370, 1268..1369, 1369..1449, 1371..1439		

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.gs	Method	GENSCAN
Start	183	End	1393
GI	none	Score	.91
Exons	183..291, 652..740, 1269..1393		

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.np	Method	AAT/NAP
Start	183	End	1459
GI	7441702	Score	488
Exons	183..291, 652..740, 1269..1459		
GI Descrip.	probable glycine cleavage system protein H - rice gi\|2570497\|gb\|AAB82134.1\| (AF022731) H protein subunit of glycine decarboxylase [Oryza sativa]		

Seq. No.	51764	Seq. ID	OJ990831_01.0419.C32
Gene No.	109577	Strand	+
Start	25	End	1459
Name	OJ990831_01.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	650	End	1443
GI	none	Score	115
Exons	650..730, 651..740, 1260..1370, 1265..1369, 1369..1443, 1371..1442		

Seq. No.	51765	Seq. ID	OJ990831_01.0419.C36
Gene No.	109578	Strand	+
Start	1	End	561
Name	OJ990831_01.0419.C36.o1.gp	Method	AAT/GAP
Start	1	End	327
GI	10616_2.R1084	Score	627
Exons	1..327		
GI Descrip.	'5042435/gb\|AAD38274.1\|AC006193_30 8.0e-68 (AC006193) Unknown		

protein [Arabidopsis thaliana]'

Seq. No.	51765	Seq. ID	OJ990831_01.0419.C36
Gene No.	109578	Strand	+
Start	1	End	561
Name	OJ990831_01.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	516
GI	5042435	Score	590
Exons	1..516		
GI Descrip.	(AC006193) Unknown protein [Arabidopsis thaliana]		

Seq. No.	51765	Seq. ID	OJ990831_01.0419.C36
Gene No.	109578	Strand	+
Start	1	End	561
Name	OJ990831_01.0419.C36.o1.gs	Method	GENSCAN
Start	118	End	561
GI	none	Score	.75
Exons	118..561		

Seq. No.	51765	Seq. ID	OJ990831_01.0419.C36
Gene No.	109579	Strand	+
Start	635	End	735
Name	OJ990831_01.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	1	End	348
GI	none	Score	91
Exons	1..60, 3..50, 88..228, 99..227, 225..347, 238..348		

Seq. No.	51765	Seq. ID	OJ990831_01.0419.C36
Gene No.	109579	Strand	+
Start	635	End	735
Name	OJ990831_01.0419.C36.o2.gp	Method	AAT/GAP
Start	635	End	735
GI	3761197	Score	202
Exons	635..735		

Seq. No.	51766	Seq. ID	OJ990831_01.0419.C38
Gene No.	109580	Strand	+
Start	1049	End	1866
Name	OJ990831_01.0419.C38.o1.gp	Method	AAT/GAP
Start	1049	End	1866
GI	83529_1.R1084	Score	803
Exons	1049..1166, 1409..1866		
GI Descrip.	'4521194/dbj\|AB013613.1\|AB013613 6.0e-79 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	51766	Seq. ID	OJ990831_01.0419.C38
Gene No.	109581	Strand	-
Start	1715	End	1850
Name	OJ990831_01.0419.C38.o1.gs	Method	GENSCAN
Start	1715	End	1850
GI	none	Score	.57
Exons	1715..1850		

Seq. No.	51766	Seq. ID	OJ990831_01.0419.C38
Gene No.	109582	Strand	-
Start	2129	End	2528
Name	OJ990831_01.0419.C38.o2.gp	Method	AAT/GAP

Start	2129	End	2528
GI	94945_1.R1084	Score	584
Exons	2129..2528		
GI Descrip.	'4521194/dbj\|AB013613.1\|AB013613 1.0e-132 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	51767	Seq. ID	OJ990831_01.0419.C39
Gene No.	109583	Strand	-
Start	167	End	2982
Name	OJ990831_01.0419.C39.o1.gs	Method	GENSCAN
Start	167	End	2982
GI	none	Score	.82
Exons	167..191, 229..304, 701..1025, 2477..2622, 2961..2982		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109584	Strand	+
Start	1502	End	3061
Name	OJ990831_01.0419.C40.o1.np	Method	AAT/NAP
Start	1502	End	3055
GI	5042425	Score	1178
Exons	1502..3055		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109584	Strand	+
Start	1502	End	3061
Name	OJ990831_01.0419.C40.o2.gs	Method	GENSCAN
Start	1502	End	3061
GI	none	Score	1
Exons	1502..3061		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	666	End	3061
GI	none	Score	55
Exons	666..713, 2687..3043, 2687..3061, 2967..3044		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	1607	End	2002
GI	none	Score	39
Exons	1607..1789, 1617..1634, 1624..1815, 1637..1828, 1943..2002		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	1646	End	3048
GI	none	Score	101
Exons	1646..1795, 1862..1954, 2027..2161, 2050..2106, 2162..2326, 2243..2410, 2341..2379, 2390..2551, 2423..2506, 2434..2550, 2542..2796, 2576..2800, 2807..3046, 2845..3048		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o2.tw	Method	TBLASTX:Wheat
Start	1649	End	1984
GI	none	Score	67
Exons	1649..1726, 1667..1750, 1742..1957, 1742..1984		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	1700	End	3022
GI	none	Score	161
Exons	1700..1951, 2036..2152, 2381..2551, 2434..2550, 2558..2812, 2569..2796, 2717..2800, 2813..2953, 2851..2952, 2969..3022		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	1865	End	3013
GI	none	Score	64
Exons	1865..1939, 2041..2142, 2042..2155, 2168..2266, 2318..2386, 2363..2545, 2393..2506, 2437..2538, 2557..2979, 2573..3013, 2696..3010		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o2.np	Method	AAT/NAP
Start	2063	End	3860
GI	6016875	Score	358
Exons	2063..2135, 3439..3576, 3685..3860		
GI Descrip.	(AP000570) EST AU078302(C63241) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51768	Seq. ID	OJ990831_01.0419.C40
Gene No.	109585	Strand	-
Start	2063	End	3860
Name	OJ990831_01.0419.C40.o3.gs	Method	GENSCAN
Start	3404	End	3850
GI	none	Score	.61
Exons	3404..3576, 3719..3850		

Seq. No.	51769	Seq. ID	OJ990831_01.0419.C41
Gene No.	109586	Strand	+
Start	586	End	816
Name	OJ990831_01.0419.C41.o1.gp	Method	AAT/GAP
Start	586	End	816
GI	47859_1.R1084	Score	402
Exons	586..816		
GI Descrip.	'461812/sp\|Q05047\|CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51770	Seq. ID	OJ990831_01.0419.C43
Gene No.	109587	Strand	+
Start	298	End	956
Name	OJ990831_01.0419.C43.o1.gs	Method	GENSCAN
Start	298	End	956
GI	none	Score	.45
Exons	298..463, 572..831, 897..956		

Seq. No.	51771	Seq. ID	OJ990831_01.0419.C44
Gene No.	109588	Strand	-
Start	515	End	1221
Name	OJ990831_01.0419.C44.o1.gs	Method	GENSCAN
Start	515	End	1221
GI	none	Score	.51
Exons	515..704, 1199..1221		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109589	Strand	+
Start	5348	End	8377
Name	OJ990831_01.0419.C45.o4.np	Method	AAT/NAP
Start	5348	End	8377
GI	5777617	Score	109
Exons	5348..5558, 8279..8377		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109589	Strand	+
Start	5348	End	8377
Name	OJ990831_01.0419.C45.o2.gp	Method	AAT/GAP
Start	7029	End	7405
GI	5816533	Score	681
Exons	7029..7405		
GI Descrip.	5922636/dbj\|BAA84637.1\| 1.0e-14 (AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] >gi_6016869_dbj_BAA85212.1_ (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109589	Strand	+
Start	5348	End	8377
Name	OJ990831_01.0419.C45.o3.gp	Method	AAT/GAP
Start	7657	End	8006
GI	3762269	Score	583
Exons	7657..8006		
GI Descrip.	6016845/dbj\|AP000570.1\|AP000570 1.0e-128 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109590	Strand	+
Start	8464	End	8981
Name	OJ990831_01.0419.C45.o3.gs	Method	GENSCAN
Start	8464	End	8981
GI	none	Score	.95
Exons	8464..8479, 8554..8981		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109591	Strand	-
Start	1	End	1455
Name	OJ990831_01.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1455
GI	6573755	Score	106
Exons	1..277, 1381..1455		
GI Descrip.	(AC009243) F28K19.3 [Arabidopsis thaliana]		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109592	Strand	-
Start	1431	End	3007
Name	OJ990831_01.0419.C45.o1.gp	Method	AAT/GAP
Start	1430	End	1874
GI	47859_1.R1084	Score	722
Exons	1430..1874		
GI Descrip.	'461812/sp\|Q05047\|CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109592	Strand	-
Start	1431	End	3007
Name	OJ990831_01.0419.C45.o1.gs	Method	GENSCAN
Start	1431	End	3007
GI	none	Score	1
Exons	1431..2199, 2217..3007		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109592	Strand	-
Start	1431	End	3007
Name	OJ990831_01.0419.C45.o2.np	Method	AAT/NAP
Start	1434	End	3007
GI	5042425	Score	1204
Exons	1434..3007		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	1389	End	5145
GI	none	Score	191
Exons	1389..1682, 1441..1644, 1689..1913, 1692..1892, 1693..1914, 1911..2108, 1960..2136, 2082..2186, 2131..2160, 2207..2347, 2348..2509, 2492..2644, 2717..2797, 3764..3877, 3770..3910, 3967..4146, 3968..4150, 4126..4200, 4127..4273, 4274..4399, 4451..4525, 4477..4665, 4499..4666, 4712..4921, 4714..4917, 4757..4918, 4927..5145, 4928..5134		

Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1443	End	5134
GI	none	Score	273

Exons	1443..1523, 1476..1964, 1480..1917, 1953..2114, 1960..2085, 2112..2156, 2204..2242, 2243..2341, 2354..2467, 2495..2641, 4147..4200, 4151..4264, 4274..4333, 4277..4423, 4457..4501, 4474..4653, 4496..4651, 4712..5134, 4714..5130		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	1443	End	5074
GI	none	Score	81
Exons	1443..1517, 1536..1676, 1537..1638, 1677..1928, 1693..1920, 1962..2096, 1963..2082, 2100..2210, 2339..2473, 2501..2689, 2684..2800, 3938..4192, 4145..4279, 4511..4666, 4519..4665, 4712..4945, 4714..4929, 4933..5028, 4934..5074		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1446	End	5164
GI	none	Score	397
Exons	1446..1802, 1447..1797, 1593..1802, 4807..5145, 4808..5140, 5129..5164		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	2510	End	4117
GI	none	Score	90
Exons	2510..2644, 2663..2761, 2663..2746, 2753..2836, 2792..2854, 3767..3853, 3979..4104, 3983..4117, 4010..4117		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	2642	End	4138
GI	none	Score	217
Exons	2642..2896, 2642..2866, 2842..2895, 3764..4138, 3770..4126		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o5.np	Method	AAT/NAP
Start	6034	End	9387
GI	7489404	Score	453
Exons	6034..6069, 8702..8912, 9213..9387		
GI Descrip.	peptide transport protein - barley gi\|2655098\|gb\|AAC32034.1\| (AF023472) peptide transporter [Hordeum vulgare]		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o3.tm	Method	TBLASTX:Maize
Start	8672	End	9385

GI	none	Score	136
Exons	8672..8803, 8685..8804, 8795..8911, 8829..8915, 9219..9380, 9221..9379, 9287..9385		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o2.tc	Method	TBLASTX:Cress
Start	8685	End	9280
GI	none	Score	59
Exons	8685..8801, 8693..8800, 8795..8911, 8796..8915, 9221..9280		
Seq. No.	51772	Seq. ID	OJ990831_01.0419.C45
Gene No.	109593	Strand	-
Start	6034	End	9387
Name	OJ990831_01.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	8816	End	9367
GI	none	Score	92
Exons	8816..8911, 8829..8915, 9219..9359, 9221..9367		
Seq. No.	51773	Seq. ID	OJ990831_01.0419.C46
Gene No.	109594	Strand	+
Start	4	End	742
Name	OJ990831_01.0419.C46.o1.gs	Method	GENSCAN
Start	4	End	742
GI	none	Score	.71
Exons	4..218, 697..742		
Seq. No.	51773	Seq. ID	OJ990831_01.0419.C46
Gene No.	109595	Strand	-
Start	225	End	771
Name	OJ990831_01.0419.C46.o1.np	Method	AAT/NAP
Start	225	End	771
GI	5777617	Score	69
Exons	225..456, 699..771		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109596	Strand	-
Start	350	End	1995
Name	OJ990831_01.0419.C47.o1.gs	Method	GENSCAN
Start	350	End	1922
GI	none	Score	.71
Exons	350..1484, 1507..1922		
Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109596	Strand	-
Start	350	End	1995
Name	OJ990831_01.0419.C47.o1.np	Method	AAT/NAP
Start	425	End	1995
GI	5042425	Score	1058
Exons	425..1995		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652

Name	OJ990831_01.0419.C47.o1.tc	Method	TBLASTX:Cress
Start	431	End	1642
GI	none	Score	90
Exons	431..643, 528..635, 680..889, 690..887, 704..892, 935..1102, 948..1124, 1091..1150, 1190..1321, 1328..1477, 1401..1478, 1505..1642, 1565..1621		

Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652
Name	OJ990831_01.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	434	End	1454
GI	none	Score	211
Exons	434..514, 500..889, 555..887, 557..889, 948..1127, 950..1105, 1100..1144, 1190..1225, 1226..1321, 1337..1450, 1401..1454		

Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652
Name	OJ990831_01.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	437	End	794
GI	none	Score	262
Exons	437..793, 462..794		

Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652
Name	OJ990831_01.0419.C47.o1.ts	Method	TBLASTX:Soybean
Start	527	End	1642
GI	none	Score	57
Exons	527..634, 570..629, 677..889, 690..887, 932..1084, 942..1082, 1325..1435, 1481..1642		

Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652
Name	OJ990831_01.0419.C47.o2.tm	Method	TBLASTX:Maize
Start	1502	End	1874
GI	none	Score	138
Exons	1502..1654, 1503..1652, 1649..1753, 1754..1843, 1845..1874		

Seq. No.	51774	Seq. ID	OJ990831_01.0419.C47
Gene No.	109597	Strand	-
Start	2560	End	2652
Name	OJ990831_01.0419.C47.o2.np	Method	AAT/NAP
Start	2560	End	2652
GI	6721547	Score	78
Exons	2560..2652		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.gs	Method	GENSCAN
Start	360	End	1361
GI	none	Score	.86
Exons	360..694, 717..1361		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.np	Method	AAT/NAP
Start	363	End	1802
GI	3819164	Score	1217
Exons	363..1802		
GI Descrip.	(AJ012318) cytosolic chaperonin, delta-subunit [Glycine max]		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o2.tm	Method	TBLASTX:Maize
Start	382	End	728
GI	none	Score	165
Exons	382..408, 393..530, 500..529, 549..689, 551..685, 687..728		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o2.ts	Method	TBLASTX:Soybean
Start	390	End	704
GI	none	Score	134
Exons	390..536, 500..526, 537..704, 551..685		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o2.tc	Method	TBLASTX:Cress
Start	399	End	653
GI	none	Score	117
Exons	399..536, 555..653		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o3.tm	Method	TBLASTX:Maize
Start	729	End	906
GI	none	Score	241
Exons	729..905, 730..906		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.ts	Method	TBLASTX:Soybean
Start	784	End	1412
GI	none	Score	785
Exons	784..1410, 790..849, 804..902, 996..1412		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.tw	Method	TBLASTX:Wheat
Start	857	End	1311
GI	none	Score	56
Exons	857..892, 858..893, 859..1311, 955..1311		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.tc	Method	TBLASTX:Cress
Start	952	End	1395
GI	none	Score	533
Exons	952..1338, 996..1331, 1308..1394, 1315..1395		

Seq. No.	51775	Seq. ID	OJ990831_01.0419.C48
Gene No.	109598	Strand	+
Start	360	End	1802
Name	OJ990831_01.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	1011	End	1421
GI	none	Score	598
Exons	1011..1412, 1012..1410, 1012..1413, 1050..1421		

Seq. No.	51776	Seq. ID	OJ990831_01.0419.C49
Gene No.	109599	Strand	-
Start	1	End	1533
Name	OJ990831_01.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	1533
GI	7485555	Score	573
Exons	1..120, 905..1138, 1193..1533		
GI Descrip.	hypothetical protein F16G20.190 - Arabidopsis thaliana gi\|3451074\|emb\|CAA20470.1\| (AL031326) putative protein [Arabidopsis thaliana] gi\|7269197\|emb\|CAB79304.1\| (AL161559) putative protein [Arabidopsis thaliana]		

Seq. No.	51776	Seq. ID	OJ990831_01.0419.C49
Gene No.	109599	Strand	-
Start	1	End	1533
Name	OJ990831_01.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	13	End	1204
GI	5666695	Score	120
Exons	13..126, 902..1204, 912..1178		
GI Descrip.	-		

Seq. No.	51776	Seq. ID	OJ990831_01.0419.C49
Gene No.	109599	Strand	-
Start	1	End	1533
Name	OJ990831_01.0419.C49.o1.gs	Method	GENSCAN
Start	905	End	1432
GI	none	Score	.46
Exons	905..1432		

Seq. No.	51776	Seq. ID	OJ990831_01.0419.C49
Gene No.	109599	Strand	-
Start	1	End	1533
Name	OJ990831_01.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	956	End	1525
GI	none	Score	58
Exons	956..1051, 957..1043, 1038..1178, 1040..1204, 1259..1348, 1269..1358, 1409..1525, 1419..1508		

Seq. No.	51776	Seq. ID	OJ990831_01.0419.C49
Gene No.	109599	Strand	-

Start	1	End	1533
Name	OJ990831_01.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	966	End	1297
GI	none	Score	48
Exons	966..1010, 969..1010, 1010..1042, 1011..1046, 1082..1165, 1083..1166, 1157..1204, 1256..1297, 1259..1297		

Seq. No.	51777	Seq. ID	OJ990831_01.0419.C51
Gene No.	109600	Strand	+
Start	80	End	1140
Name	OJ990831_01.0419.C51.o1.gs	Method	GENSCAN
Start	80	End	1140
GI	none	Score	.57
Exons	80..92, 193..268, 451..748, 900..946, 1038..1140		

Seq. No.	51778	Seq. ID	OJ990831_01.0419.C52
Gene No.	109601	Strand	+
Start	551	End	1520
Name	OJ990831_01.0419.C52.o2.tm	Method	TBLASTX:Maize
Start	484	End	728
GI	none	Score	60
Exons	484..537, 501..536, 508..537, 541..699, 542..700, 561..704, 699..728		

Seq. No.	51778	Seq. ID	OJ990831_01.0419.C52
Gene No.	109601	Strand	+
Start	551	End	1520
Name	OJ990831_01.0419.C52.o1.gs	Method	GENSCAN
Start	551	End	1451
GI	none	Score	.81
Exons	551..964, 1371..1451		

Seq. No.	51778	Seq. ID	OJ990831_01.0419.C52
Gene No.	109601	Strand	+
Start	551	End	1520
Name	OJ990831_01.0419.C52.o1.tm	Method	TBLASTX:Maize
Start	1299	End	1520
GI	none	Score	274
Exons	1299..1508, 1310..1510, 1311..1520		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109602	Strand	+
Start	47	End	441
Name	OJ991226_45.0419.C3.o1.gs	Method	GENSCAN
Start	47	End	441
GI	none	Score	.63
Exons	47..232, 286..441		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109603	Strand	+
Start	2199	End	4416
Name	OJ991226_45.0419.C3.o3.np	Method	AAT/NAP
Start	2199	End	4416
GI	7486928	Score	66
Exons	2199..2375, 4382..4416		
GI Descrip.	hypothetical protein T13D8.28 - Arabidopsis thaliana gi\|3249093\|gb\|AAC24077.1\| (AC004473) Contains similarity to heat		

shock transcription factor homolog from A. thaliana chromosome 4 contig gb|Z97335. [Arabidopsis thaliana]

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	3457
GI	4895194	Score	100
Exons	1..47, 898..1073, 3431..3457		
GI Descrip.	(AC007661) putative peptide/amino acid transporter [Arabidopsis thaliana]		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o2.gs	Method	GENSCAN
Start	676	End	12042
GI	none	Score	.72
Exons	676..1155, 2291..2420, 4947..5284, 5332..5421, 5849..5887, 6038..6301, 6808..7115, 7195..8133, 9069..9496, 9579..9676, 10352..10465, 10646..10740, 10851..10912, 11027..11186, 11876..12042		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o2.np	Method	AAT/NAP
Start	730	End	2630
GI	4895194	Score	118
Exons	730..879, 2541..2630		
GI Descrip.	(AC007661) putative peptide/amino acid transporter [Arabidopsis thaliana]		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o4.np	Method	AAT/NAP
Start	6770	End	12147
GI	6693023	Score	1281
Exons	6770..7029, 7180..7714, 7756..8133, 9069..9496, 9579..9676, 9767..9829, 10643..10750, 11056..11186, 11876..12147		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	8036	End	9354
GI	none	Score	130
Exons	8036..8134, 8037..8141, 8038..8136, 9059..9142, 9068..9160, 9154..9354, 9163..9354		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o1.gp	Method	AAT/GAP

Start	9085	End	9495
GI	2428243	Score	791
Exons	9085..9495		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	9172	End	9694
GI	none	Score	84
Exons	9172..9255, 9173..9256, 9259..9378, 9370..9498, 9422..9499, 9422..9514, 9576..9677, 9584..9694, 9616..9678		

Seq. No.	51779	Seq. ID	OJ991226_45.0419.C3
Gene No.	109604	Strand	-
Start	1	End	12147
Name	OJ991226_45.0419.C3.o2.gp	Method	AAT/GAP
Start	9575	End	10472
GI	none	Score	394
Exons	9575..9676, 9767..9829, 10352..10472		

Seq. No.	51780	Seq. ID	OJ991226_45.0419.C4
Gene No.	109605	Strand	-
Start	2120	End	4745
Name	OJ991226_45.0419.C4.o1.gp	Method	AAT/GAP
Start	2063	End	4745
GI	42235_1.R1084	Score	923
Exons	2063..2188, 3314..3379, 3477..3549, 3622..3679, 4522..4745		
GI Descrip.	'4468985/emb\|CAB38299\| 2.0e-10 (AL035605) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51780	Seq. ID	OJ991226_45.0419.C4
Gene No.	109605	Strand	-
Start	2120	End	4745
Name	OJ991226_45.0419.C4.o1.gs	Method	GENSCAN
Start	2120	End	4740
GI	none	Score	.76
Exons	2120..2188, 3314..3379, 3477..3587, 4636..4740		

Seq. No.	51780	Seq. ID	OJ991226_45.0419.C4
Gene No.	109605	Strand	-
Start	2120	End	4745
Name	OJ991226_45.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	3314	End	3557
GI	none	Score	116
Exons	3314..3385, 3315..3386, 3473..3541, 3474..3548, 3474..3557, 3475..3552		

Seq. No.	51781	Seq. ID	OJ991226_45.0419.C5
Gene No.	109606	Strand	+
Start	1	End	466
Name	OJ991226_45.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	466
GI	5852180	Score	248
Exons	1..466		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51781	Seq. ID	OJ991226_45.0419.C5
Gene No.	109607	Strand	-
Start	1036	End	1825
Name	OJ991226_45.0419.C5.o2.gs	Method	GENSCAN
Start	1036	End	1754
GI	none	Score	.83
Exons	1036..1134, 1246..1311, 1425..1490, 1575..1754		

Seq. No.	51781	Seq. ID	OJ991226_45.0419.C5
Gene No.	109607	Strand	-
Start	1036	End	1825
Name	OJ991226_45.0419.C5.o2.np	Method	AAT/NAP
Start	1057	End	1825
GI	7485622	Score	281
Exons	1057..1134, 1246..1311, 1425..1490, 1575..1825		
GI Descrip.	hypothetical protein F17I5.70 - Arabidopsis thaliana gi\|3297812\|emb\|CAA19870.1\| (AL031032) putative protein [Arabidopsis thaliana] gi\|7270337\|emb\|CAB80105.1\| (AL161584) putative protein [Arabidopsis thaliana]		

Seq. No.	51782	Seq. ID	OJ991226_45.0419.C8
Gene No.	109608	Strand	+
Start	489	End	1131
Name	OJ991226_45.0419.C8.o1.gs	Method	GENSCAN
Start	489	End	1109
GI	none	Score	.78
Exons	489..548, 716..1109		

Seq. No.	51782	Seq. ID	OJ991226_45.0419.C8
Gene No.	109608	Strand	+
Start	489	End	1131
Name	OJ991226_45.0419.C8.o1.np	Method	AAT/NAP
Start	489	End	1131
GI	2498930	Score	719
Exons	489..548, 716..1131		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi\|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109609	Strand	-
Start	525	End	587
Name	OJ991226_45.0419.C14.o1.gp	Method	AAT/GAP
Start	525	End	587
GI	LIB3432-007-P1-K1-E2	Score	104
Exons	525..587		
GI Descrip.	'4468813/emb\|CAB38214\| 2.0e-10 (AL035601) putative protein [Arabidopsis thaliana]'		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	222	End	587
GI	none	Score	78
Exons	222..584, 339..587		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14

Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	315	End	786
GI	none	Score	73
Exons	315..401, 319..396, 414..785, 637..786		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o4.tw	Method	TBLASTX:Wheat
Start	684	End	1235
GI	none	Score	60
Exons	684..800, 828..866, 873..1235, 927..1088		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	858	End	1385
GI	none	Score	113
Exons	858..1022, 1032..1385, 1060..1269		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	991	End	1952
GI	none	Score	95
Exons	991..1257, 1035..1952, 1330..1467, 1542..1913, 1549..1929		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o1.gs	Method	GENSCAN
Start	1175	End	2745
GI	none	Score	.84
Exons	1175..1218, 1334..2302, 2652..2745		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o5.tw	Method	TBLASTX:Wheat
Start	1242	End	1586
GI	none	Score	98
Exons	1242..1322, 1314..1466, 1476..1586		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	1587	End	1901
GI	none	Score	187
Exons	1587..1652, 1590..1901, 1627..1866		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-

Start	1175	End	2754
Name	OJ991226_45.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	2089	End	2754
GI	none	Score	58
Exons	2089..2151, 2091..2189, 2145..2336, 2157..2246, 2310..2492, 2611..2754		

Seq. No.	51783	Seq. ID	OJ991226_45.0419.C14
Gene No.	109610	Strand	-
Start	1175	End	2754
Name	OJ991226_45.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	2229	End	2570
GI	none	Score	100
Exons	2229..2570, 2230..2442		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.gp	Method	AAT/GAP
Start	941	End	1388
GI	5038970	Score	811
Exons	941..1388		
GI Descrip.	4468813/emb\|CAB38214\| 2.0e-10 (AL035601) putative protein [Arabidopsis thaliana]		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.gs	Method	GENSCAN
Start	946	End	1374
GI	none	Score	.42
Exons	946..1374		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1092	End	1442
GI	none	Score	400
Exons	1092..1271, 1108..1440, 1365..1442		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	1092	End	1284
GI	none	Score	210
Exons	1092..1271, 1108..1284		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.np	Method	AAT/NAP
Start	1096	End	1442
GI	6223644	Score	417
Exons	1096..1442		
GI Descrip.	(AC011698) unknown protein [Arabidopsis thaliana]		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	1111	End	1442
GI	none	Score	215
Exons	1111..1302, 1357..1440, 1365..1442		

Seq. No.	51784	Seq. ID	OJ991226_45.0419.C15
Gene No.	109611	Strand	+
Start	941	End	1442
Name	OJ991226_45.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1111	End	1442
GI	none	Score	348
Exons	1111..1440, 1173..1271, 1365..1442		

Seq. No.	51785	Seq. ID	OJ991226_45.0419.C17
Gene No.	109612	Strand	+
Start	161	End	303
Name	OJ991226_45.0419.C17.o1.gs	Method	GENSCAN
Start	161	End	303
GI	none	Score	.41
Exons	161..303		

Seq. No.	51785	Seq. ID	OJ991226_45.0419.C17
Gene No.	109613	Strand	-
Start	1125	End	1273
Name	OJ991226_45.0419.C17.o2.gs	Method	GENSCAN
Start	1125	End	1273
GI	none	Score	.44
Exons	1125..1202, 1241..1273		

Seq. No.	51786	Seq. ID	OJ991226_45.0419.C18
Gene No.	109614	Strand	+
Start	115	End	994
Name	OJ991226_45.0419.C18.o1.gs	Method	GENSCAN
Start	115	End	994
GI	none	Score	.5
Exons	115..506, 619..994		

Seq. No.	51786	Seq. ID	OJ991226_45.0419.C18
Gene No.	109615	Strand	-
Start	1654	End	1890
Name	OJ991226_45.0419.C18.o2.gs	Method	GENSCAN
Start	1654	End	1890
GI	none	Score	.86
Exons	1654..1673, 1812..1890		

Seq. No.	51787	Seq. ID	OJ991226_45.0419.C19
Gene No.	109616	Strand	+
Start	347	End	1187
Name	OJ991226_45.0419.C19.o1.np	Method	AAT/NAP
Start	347	End	1187
GI	7339707	Score	54
Exons	347..439, 1160..1187		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	51787	Seq. ID	OJ991226_45.0419.C19
Gene No.	109616	Strand	+
Start	347	End	1187
Name	OJ991226_45.0419.C19.o1.gs	Method	GENSCAN
Start	528	End	854
GI	none	Score	.47
Exons	528..586, 665..854		

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	1695	End	3867
GI	none	Score	46
Exons	1695..1724, 1696..1725, 1731..1865, 1732..1875, 3420..3494, 3421..3495, 3594..3755, 3598..3867, 3801..3860		

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	1695	End	3629
GI	none	Score	196
Exons	1695..1865, 1695..1877, 1699..1872, 3423..3473, 3424..3483, 3585..3629, 3586..3627		

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o1.gs	Method	GENSCAN
Start	1699	End	3812
GI	none	Score	.71
Exons	1699..1875, 3424..3478, 3584..3812		

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o1.np	Method	AAT/NAP
Start	1699	End	3884
GI	7436361	Score	568
Exons	1699..1875, 3424..3495, 3604..3884		
GI Descrip.	Ca2+-transporting ATPase (EC 3.6.1.38) ACA2 - Arabidopsis thaliana gi\|3335060\|gb\|AAC26997.1\| (AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi\|4468989\|emb\|CAB38303.1\| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana] gi\|7270746\|emb\|CAB80429.1\| (AL161591) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]		

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	1699	End	3884
GI	none	Score	42
Exons	1699..1725, 1731..1877, 1732..1875, 3421..3495, 3597..3755,		

3598..3882, 3792..3884

Seq. No.	51788	Seq. ID	OJ991226_45.0419.C20
Gene No.	109617	Strand	+
Start	1699	End	3884
Name	OJ991226_45.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	3631	End	3884
GI	none	Score	298
Exons	3631..3759, 3639..3884, 3640..3882		

Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	1740
GI	7436361	Score	1803
Exons	1..1062, 1147..1305, 1518..1740		
GI Descrip.	Ca2+-transporting ATPase (EC 3.6.1.38) ACA2 - Arabidopsis thaliana gi\|3335060\|gb\|AAC26997.1\| (AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi\|4468989\|emb\|CAB38303.1\| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana] gi\|7270746\|emb\|CAB80429.1\| (AL161591) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]		

Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1	End	1697
GI	none	Score	402
Exons	1..318, 42..320, 325..600, 339..599, 594..1100, 595..1065, 722..1066, 1143..1358, 1144..1308, 1500..1679, 1515..1697, 1517..1696		

Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	1	End	441
GI	none	Score	529
Exons	1..441, 36..440		

Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	3	End	390
GI	none	Score	489
Exons	3..389, 4..390		

Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.gs	Method	GENSCAN
Start	22	End	1689
GI	none	Score	.68

Exons	22..1086, 1147..1305, 1518..1689		
Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	162	End	507
GI	none	Score	65
Exons	162..314, 162..506, 163..507		
Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	394	End	1697
GI	none	Score	1019
Exons	394..1065, 396..1097, 1144..1308, 1144..1308, 1146..1322, 1515..1697, 1516..1650, 1517..1696		
Seq. No.	51789	Seq. ID	OJ991226_45.0419.C21
Gene No.	109618	Strand	+
Start	1	End	1740
Name	OJ991226_45.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	441	End	1697
GI	none	Score	813
Exons	441..1100, 442..1065, 1137..1307, 1144..1308, 1500..1691, 1515..1697, 1517..1696		
Seq. No.	51790	Seq. ID	OJ991226_45.0419.C23
Gene No.	109619	Strand	+
Start	637	End	770
Name	OJ991226_45.0419.C23.o1.gp	Method	AAT/GAP
Start	637	End	770
GI	LIB3474-009-P1-K1-F11	Score	228
Exons	637..770		
GI Descrip.	'4455244/emb\|CAB36743.1\| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	51791	Seq. ID	OJ991226_45.0419.C27
Gene No.	109620	Strand	+
Start	1	End	722
Name	OJ991226_45.0419.C27.o1.gs	Method	GENSCAN
Start	1	End	722
GI	none	Score	.85
Exons	1..236, 356..376, 668..722		
Seq. No.	51792	Seq. ID	OJ991226_45.0419.C29
Gene No.	109621	Strand	+
Start	1	End	2516
Name	OJ991226_45.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	2516
GI	267421	Score	233
Exons	1..21, 1624..1753, 1885..2079, 2198..2283, 2484..2516		
GI Descrip.	DNA-REPAIR PROTEIN COMPLEMENTING XP-G CELLS HOMOLOG (XERODERMA PIGMENTOSUM GROUP G COMPLEMENTING PROTEIN HOMOLOG) gi\|422627\|pir\|\|S35994 DNA repair protein XPGC - African clawed frog gi\|312433\|emb\|CAA49597\| (X69977) XP-G related factor		

[Xenopus laevis]

Seq. No.	51792	Seq. ID	OJ991226_45.0419.C29
Gene No.	109621	Strand	+
Start	1	End	2516
Name	OJ991226_45.0419.C29.o1.gs	Method	GENSCAN
Start	140	End	2283
GI	none	Score	.79
Exons	140..1753, 1885..2079, 2132..2283		

Seq. No.	51792	Seq. ID	OJ991226_45.0419.C29
Gene No.	109621	Strand	+
Start	1	End	2516
Name	OJ991226_45.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	302	End	709
GI	none	Score	397
Exons	302..601, 302..430, 382..597, 599..709	387..602, 572..709, 594..695,	

Seq. No.	51792	Seq. ID	OJ991226_45.0419.C29
Gene No.	109621	Strand	+
Start	1	End	2516
Name	OJ991226_45.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	1637	End	2004
GI	none	Score	114
Exons	1637..1765, 1681..1764, 1849..2004, 1882..1959, 1883..2002		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	263	End	1004
GI	none	Score	193
Exons	263..382, 264..401, 905..994, 909..1004		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2398	End	2848
GI	none	Score	81
Exons	2398..2472, 2399..2473, 2400..2492, 2476..2595, 2482..2583, 2584..2676, 2584..2673, 2693..2776, 2719..2769, 2756..2848, 2756..2824, 2758..2847		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o2.gs	Method	GENSCAN
Start	3758	End	8329
GI	none	Score	.8
Exons	3758..3847, 3947..4084, 6308..6354, 6678..6852, 8168..8329		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o2.np	Method	AAT/NAP

Start	4352	End	6888
GI	7485196	Score	465
Exons	4352..4428, 4734..4808, 4940..5013, 5614..5657, 6308..6354, 6678..6888		
GI Descrip.	hypothetical protein - Arabidopsis thaliana		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	6747	End	8332
GI	none	Score	144
Exons	6747..6854, 6748..6855, 8168..8332		

Seq. No.	51793	Seq. ID	OJ991226_45.0419.C30
Gene No.	109622	Strand	+
Start	3758	End	8332
Name	OJ991226_45.0419.C30.o3.np	Method	AAT/NAP
Start	7310	End	7426
GI	5852084	Score	72
Exons	7310..7426		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51794	Seq. ID	OJ991226_45.0419.C31
Gene No.	109623	Strand	+
Start	691	End	3353
Name	OJ991226_45.0419.C31.o1.gs	Method	GENSCAN
Start	691	End	3353
GI	none	Score	.58
Exons	691..739, 911..1097, 1291..1442, 2414..2475, 2747..2853, 2878..3049, 3145..3353		

Seq. No.	51795	Seq. ID	OJ991226_45.0419.C32
Gene No.	109624	Strand	+
Start	280	End	489
Name	OJ991226_45.0419.C32.o1.gs	Method	GENSCAN
Start	280	End	489
GI	none	Score	.68
Exons	280..489		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.gs	Method	GENSCAN
Start	69	End	4017
GI	none	Score	.89
Exons	69..257, 383..412, 2088..2149, 2571..2640, 3001..4017		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	2064	End	3507
GI	none	Score	75
Exons	2064..2150, 2085..2150, 2575..2640, 2998..3069, 3066..3164, 3066..3506, 3067..3507		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o2.tc	Method	TBLASTX:Cress
Start	2087	End	3207
GI	none	Score	64
Exons	2087..2128, 2088..2126, 2998..3072, 3070..3207, 3081..3206		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.np	Method	AAT/NAP
Start	2088	End	4507
GI	7486189	Score	1229
Exons	2088..2151, 2573..2640, 3001..4160, 4389..4507		
GI Descrip.	hypothetical protein F26C24.4 - Arabidopsis thaliana gi\|3252807\|gb\|AAC24177.1\| (AC004705) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.gp	Method	AAT/GAP
Start	2596	End	3344
GI	2431342	Score	718
Exons	2596..2640, 3001..3344		
GI Descrip.	3252807 1.0e-38 (AC004705) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	3067	End	3348
GI	none	Score	352
Exons	3067..3348, 3067..3336, 3087..3344		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	3067	End	3462
GI	none	Score	481
Exons	3067..3441, 3075..3410, 3079..3462		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	3211	End	3644
GI	none	Score	264
Exons	3211..3432, 3213..3431, 3468..3644, 3487..3633		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o1.tm	Method	TBLASTX:Maize

Start	3464	End	4507
GI	none	Score	486
Exons	3464..4000, 3469..4053, 3469..4014, 3930..4085, 4015..4161, 4016..4162, 4016..4162, 4017..4193, 4384..4506, 4386..4505, 4388..4507, 4388..4507		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	3529	End	4067
GI	none	Score	123
Exons	3529..3741, 3546..3653, 3684..3857, 3784..3879, 3880..3927, 4016..4066, 4017..4067		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o2.gp	Method	AAT/GAP
Start	3696	End	4166
GI	3061088	Score	897
Exons	3696..4166		
GI Descrip.	3252807 1.0e-28 (AC004705) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51796	Seq. ID	OJ991226_45.0419.C33
Gene No.	109625	Strand	+
Start	69	End	4507
Name	OJ991226_45.0419.C33.o2.tw	Method	TBLASTX:Wheat
Start	3874	End	4476
GI	none	Score	131
Exons	3874..3960, 3887..3961, 3958..4053, 3964..4008, 4015..4161, 4016..4162, 4016..4162, 4017..4193, 4386..4475, 4387..4476, 4388..4474		

Seq. No.	51797	Seq. ID	OJ991226_45.0419.C34
Gene No.	109626	Strand	-
Start	7	End	1063
Name	OJ991226_45.0419.C34.o1.gs	Method	GENSCAN
Start	7	End	1063
GI	none	Score	.6
Exons	7..139, 1021..1063		

Seq. No.	51798	Seq. ID	OJ991226_45.0419.C36
Gene No.	109627	Strand	+
Start	18	End	271
Name	OJ991226_45.0419.C36.o1.gs	Method	GENSCAN
Start	18	End	271
GI	none	Score	.56
Exons	18..47, 161..271		

Seq. No.	51798	Seq. ID	OJ991226_45.0419.C36
Gene No.	109628	Strand	+
Start	319	End	896
Name	OJ991226_45.0419.C36.o1.gp	Method	AAT/GAP
Start	319	End	896
GI	4715133	Score	1129

Exons	319..896		
Seq. No.	51798	Seq. ID	OJ991226_45.0419.C36
Gene No.	109629	Strand	-
Start	1	End	2164
Name	OJ991226_45.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	2164
GI	3915635	Score	132
Exons	1..77, 1372..1425, 1504..1798, 1930..2164		
GI Descrip.	CYCLIN DELTA-1 gi\|2995130\|emb\|CAA58285\| (X83369) cyclin delta-1 [Arabidopsis thaliana]		
Seq. No.	51798	Seq. ID	OJ991226_45.0419.C36
Gene No.	109629	Strand	-
Start	1	End	2164
Name	OJ991226_45.0419.C36.o2.gs	Method	GENSCAN
Start	986	End	2016
GI	none	Score	.77
Exons	986..1192, 1304..1795, 1855..2016		
Seq. No.	51799	Seq. ID	OJ991226_45.0419.C39
Gene No.	109630	Strand	+
Start	394	End	811
Name	OJ991226_45.0419.C39.o1.gs	Method	GENSCAN
Start	394	End	811
GI	none	Score	.55
Exons	394..495, 657..811		
Seq. No.	51800	Seq. ID	OJ991226_45.0419.C41
Gene No.	109631	Strand	+
Start	69	End	1167
Name	OJ991226_45.0419.C41.o1.np	Method	AAT/NAP
Start	69	End	963
GI	6907106	Score	416
Exons	69..701, 776..963		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	51800	Seq. ID	OJ991226_45.0419.C41
Gene No.	109631	Strand	+
Start	69	End	1167
Name	OJ991226_45.0419.C41.o1.gs	Method	GENSCAN
Start	120	End	542
GI	none	Score	.85
Exons	120..542		
Seq. No.	51800	Seq. ID	OJ991226_45.0419.C41
Gene No.	109631	Strand	+
Start	69	End	1167
Name	OJ991226_45.0419.C41.o1.gp	Method	AAT/GAP
Start	150	End	1167
GI	6547_2.R1084	Score	1628
Exons	150..1167		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 6.0e-30 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	51800	Seq. ID	OJ991226_45.0419.C41

Gene No.	109632	Strand	+
Start	3174	End	3643
Name	OJ991226_45.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	492	End	866
GI	none	Score	142
Exons	492..728, 515..748, 517..639, 714..737, 717..755, 720..746, 800..865, 811..864, 819..866		

Seq. No.	51800	Seq. ID	OJ991226_45.0419.C41
Gene No.	109632	Strand	+
Start	3174	End	3643
Name	OJ991226_45.0419.C41.o2.gs	Method	GENSCAN
Start	3174	End	3643
GI	none	Score	.61
Exons	3174..3217, 3529..3643		

Seq. No.	51801	Seq. ID	OJ991226_45.0419.C42
Gene No.	109633	Strand	-
Start	294	End	1666
Name	OJ991226_45.0419.C42.o1.gs	Method	GENSCAN
Start	294	End	1642
GI	none	Score	.89
Exons	294..376, 776..981, 1086..1642		

Seq. No.	51801	Seq. ID	OJ991226_45.0419.C42
Gene No.	109633	Strand	-
Start	294	End	1666
Name	OJ991226_45.0419.C42.o1.np	Method	AAT/NAP
Start	772	End	1666
GI	6503010	Score	305
Exons	772..981, 1071..1201, 1322..1666		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		

Seq. No.	51801	Seq. ID	OJ991226_45.0419.C42
Gene No.	109633	Strand	-
Start	294	End	1666
Name	OJ991226_45.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	774	End	1162
GI	none	Score	97
Exons	774..986, 775..876, 948..989, 1067..1162, 1068..1160		

Seq. No.	51801	Seq. ID	OJ991226_45.0419.C42
Gene No.	109633	Strand	-
Start	294	End	1666
Name	OJ991226_45.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	1127	End	1322
GI	none	Score	186
Exons	1127..1318, 1128..1322		

Seq. No.	51802	Seq. ID	OJ991226_45.0419.C44
Gene No.	109634	Strand	+
Start	54	End	464
Name	OJ991226_45.0419.C44.o1.gs	Method	GENSCAN
Start	54	End	464
GI	none	Score	.87
Exons	54..464		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	704
GI	4680338	Score	572
Exons	1..704		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	6	End	692
GI	none	Score	70
Exons	6..98, 135..311, 140..313, 329..385, 330..413, 429..692, 429..686, 437..691		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	6	End	293
GI	none	Score	76
Exons	6..74, 140..292, 141..293		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.ts	Method	TBLASTX:Soybean
Start	6	End	692
GI	none	Score	71
Exons	6..98, 135..314, 143..304, 330..413, 341..385, 429..692, 437..691		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o2.tc	Method	TBLASTX:Cress
Start	9	End	314
GI	none	Score	65
Exons	9..89, 135..314, 140..292		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.gs	Method	GENSCAN
Start	50	End	721
GI	none	Score	.93
Exons	50..721		

Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o1.tc	Method	TBLASTX:Cress
Start	330	End	707
GI	none	Score	72

Exons	330..413, 429..707, 437..628		
Seq. No.	51803	Seq. ID	OJ991226_45.0419.C47
Gene No.	109635	Strand	+
Start	1	End	721
Name	OJ991226_45.0419.C47.o2.tw	Method	TBLASTX:Wheat
Start	330	End	689
GI	none	Score	70
Exons	330..413, 423..596, 612..689		
Seq. No.	51804	Seq. ID	OJ991226_45.0419.C54
Gene No.	109636	Strand	-
Start	1	End	1696
Name	OJ991226_45.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	1696
GI	4680186	Score	181
Exons	1..41, 895..1052, 1674..1696		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	51804	Seq. ID	OJ991226_45.0419.C54
Gene No.	109636	Strand	-
Start	1	End	1696
Name	OJ991226_45.0419.C54.o1.gs	Method	GENSCAN
Start	460	End	1064
GI	none	Score	.58
Exons	460..563, 867..1064		
Seq. No.	51805	Seq. ID	OJ991226_45.0419.C55
Gene No.	109637	Strand	+
Start	1	End	754
Name	OJ991226_45.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	754
GI	7340884	Score	186
Exons	1..36, 348..754		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		
Seq. No.	51805	Seq. ID	OJ991226_45.0419.C55
Gene No.	109637	Strand	+
Start	1	End	754
Name	OJ991226_45.0419.C55.o1.gs	Method	GENSCAN
Start	121	End	572
GI	none	Score	.68
Exons	121..408, 463..572		
Seq. No.	51805	Seq. ID	OJ991226_45.0419.C55
Gene No.	109637	Strand	+
Start	1	End	754
Name	OJ991226_45.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	453	End	754
GI	none	Score	67
Exons	453..512, 473..517, 519..746, 530..754		
Seq. No.	51806	Seq. ID	OJ991226_45.0419.C58
Gene No.	109638	Strand	-
Start	1	End	882
Name	OJ991226_45.0419.C58.o1.np	Method	AAT/NAP

Start	1	End	882
GI	133435	Score	146
Exons	1..30, 730..882		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi\|66983\|pir\|\|RNRZC1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - rice chloroplast gi\|11972\|emb\|CAA33987\| (X15901) RNA polymerase beta' subunit-1 [Oryza sativa] gi\|226690\|prf\|\|1603356Q RNA polymerase beta'-1 [Oryza sativa]		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.np	Method	AAT/NAP
Start	1	End	708
GI	4680501	Score	552
Exons	1..708		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	4	End	735
GI	none	Score	80
Exons	4..99, 151..327, 156..329, 340..423, 340..402, 345..425, 430..735, 441..704		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.tw	Method	TBLASTX:Wheat
Start	4	End	309
GI	none	Score	87
Exons	4..96, 111..308, 115..309		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	4	End	735
GI	none	Score	83
Exons	4..99, 151..330, 195..320, 331..423, 340..423, 430..735, 441..704		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.gs	Method	GENSCAN
Start	92	End	726
GI	none	Score	.44
Exons	92..726		

Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o2.tw	Method	TBLASTX:Wheat
Start	313	End	705

GI	none	Score	63
Exons	313..408, 427..600, 613..705		
Seq. No.	51807	Seq. ID	OJ991226_45.0419.C59
Gene No.	109639	Strand	+
Start	1	End	735
Name	OJ991226_45.0419.C59.o1.tc	Method	TBLASTX:Cress
Start	340	End	707
GI	none	Score	75
Exons	340..423, 432..707, 433..705		
Seq. No.	51808	Seq. ID	OJ991226_45.0419.C60
Gene No.	109640	Strand	-
Start	350	End	915
Name	OJ991226_45.0419.C60.o1.gs	Method	GENSCAN
Start	350	End	915
GI	none	Score	.94
Exons	350..585, 609..719, 855..915		
Seq. No.	51809	Seq. ID	OJ991226_45.0419.C61
Gene No.	109641	Strand	+
Start	1	End	179
Name	OJ991226_45.0419.C61.o1.np	Method	AAT/NAP
Start	1	End	179
GI	6069653	Score	135
Exons	1..179		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		
Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109642	Strand	-
Start	361	End	675
Name	OJ991226_45.0419.C63.o1.gp	Method	AAT/GAP
Start	361	End	675
GI	3409_1.R1084	Score	597
Exons	361..675		
GI Descrip.	'3281868/emb\|CAA19764\| 7.0e-47 (AL031004) putative protein [Arabidopsis thaliana]'		
Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-
Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	990	End	1512
GI	none	Score	97
Exons	990..1301, 1027..1203, 1308..1385, 1308..1391, 1392..1511, 1411..1512		
Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-
Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.gs	Method	GENSCAN
Start	1005	End	1437
GI	none	Score	.6
Exons	1005..1437		
Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-

Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	1008	End	1511
GI	none	Score	102
Exons	1008..1301, 1018..1203, 1308..1391, 1308..1391, 1402..1506, 1404..1511		

Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-
Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.tc	Method	TBLASTX:Cress
Start	1015	End	1418
GI	none	Score	94
Exons	1015..1227, 1026..1298, 1308..1418, 1311..1379		

Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-
Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.np	Method	AAT/NAP
Start	1023	End	1513
GI	4680501	Score	449
Exons	1023..1513		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	51810	Seq. ID	OJ991226_45.0419.C63
Gene No.	109643	Strand	-
Start	1005	End	1513
Name	OJ991226_45.0419.C63.o1.tw	Method	TBLASTX:Wheat
Start	1026	End	1385
GI	none	Score	65
Exons	1026..1115, 1131..1304, 1302..1385		

Seq. No.	51811	Seq. ID	OJ991226_45.0419.C64
Gene No.	109644	Strand	+
Start	49	End	1658
Name	OJ991226_45.0419.C64.o1.gs	Method	GENSCAN
Start	49	End	1658
GI	none	Score	.44
Exons	49..222, 1124..1251, 1497..1658		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o1.np	Method	AAT/NAP
Start	26	End	1240
GI	4680500	Score	551
Exons	26..754, 1216..1240		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o1.tm	Method	TBLASTX:Maize
Start	26	End	1161
GI	none	Score	115
Exons	26..298, 27..227, 311..382, 311..394, 324..389, 405..548, 407..568, 634..729, 970..1161, 971..1144, 1064..1123		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o1.ts	Method	TBLASTX:Soybean
Start	26	End	729
GI	none	Score	105
Exons	26..298, 27..203, 311..394, 324..386, 407..568, 414..554, 634..729		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o2.np	Method	AAT/NAP
Start	26	End	1240
GI	4680341	Score	546
Exons	26..762, 1218..1240		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o1.tw	Method	TBLASTX:Wheat
Start	26	End	421
GI	none	Score	72
Exons	26..115, 131..304, 326..421		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o1.tc	Method	TBLASTX:Cress
Start	26	End	424
GI	none	Score	84
Exons	26..298, 27..227, 311..424, 314..394		

Seq. No.	51812	Seq. ID	OJ991226_45.0419.C73
Gene No.	109645	Strand	-
Start	26	End	1240
Name	OJ991226_45.0419.C73.o2.tw	Method	TBLASTX:Wheat
Start	425	End	777
GI	none	Score	133
Exons	425..565, 426..566, 637..777		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.np	Method	AAT/NAP
Start	1	End	2015
GI	4680500	Score	445
Exons	1..28, 1432..2015		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.gs	Method	GENSCAN
Start	991	End	1965

GI	none	Score	.74
Exons	991..1965		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.tm	Method	TBLASTX:Maize
Start	1062	End	1736
GI	none	Score	64
Exons	1062..1136, 1075..1134, 1080..1274, 1146..1280, 1147..1281, 1384..1515, 1386..1514, 1438..1518, 1578..1736, 1579..1734		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.tw	Method	TBLASTX:Wheat
Start	1423	End	1746
GI	none	Score	72
Exons	1423..1503, 1573..1740, 1576..1746, 1590..1745		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.ts	Method	TBLASTX:Soybean
Start	1426	End	2013
GI	none	Score	75
Exons	1426..1521, 1549..1767, 1647..1754, 1756..1860, 1876..2013, 1968..2012		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o1.tc	Method	TBLASTX:Cress
Start	1777	End	2007
GI	none	Score	77
Exons	1777..1860, 1876..2007		

Seq. No.	51813	Seq. ID	OJ991226_45.0419.C74
Gene No.	109646	Strand	+
Start	1	End	2015
Name	OJ991226_45.0419.C74.o2.tm	Method	TBLASTX:Maize
Start	1777	End	2013
GI	none	Score	92
Exons	1777..1860, 1797..1850, 1876..2013, 1974..2012		

Seq. No.	51814	Seq. ID	OJ991226_45.0419.C75
Gene No.	109647	Strand	-
Start	1074	End	1148
Name	OJ991226_45.0419.C75.o1.gs	Method	GENSCAN
Start	1074	End	1148
GI	none	Score	.58
Exons	1074..1148		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o1.np	Method	AAT/NAP

Start	1	End	833
GI	7228457	Score	1145
Exons	1..220, 343..833		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o2.tw	Method	TBLASTX:Wheat
Start	98	End	385
GI	none	Score	51
Exons	98..385, 291..347		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o1.ts	Method	TBLASTX:Soybean
Start	149	End	519
GI	none	Score	83
Exons	149..379, 376..519, 377..502		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	272	End	655
GI	none	Score	201
Exons	272..382, 370..654, 371..655		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o1.gs	Method	GENSCAN
Start	328	End	779
GI	none	Score	.42
Exons	328..779		

Seq. No.	51815	Seq. ID	OJ991226_45.0419.C87
Gene No.	109648	Strand	-
Start	1	End	833
Name	OJ991226_45.0419.C87.o1.tw	Method	TBLASTX:Wheat
Start	394	End	813
GI	none	Score	245
Exons	394..813, 407..811		

Seq. No.	51816	Seq. ID	OJ991226_45.0419.C88
Gene No.	109649	Strand	-
Start	1	End	477
Name	OJ991226_45.0419.C88.o1.np	Method	AAT/NAP
Start	1	End	453
GI	7488960	Score	143
Exons	1..63, 192..453		
GI Descrip.	cytochrome P450 (CYP72C) - Madagascar periwinkle (fragment) gi\|404690\|gb\|AAA17746.1\| (L19075) cytochrome P450 [Catharanthus roseus]		

Seq. No.	51816	Seq. ID	OJ991226_45.0419.C88
Gene No.	109649	Strand	-
Start	1	End	477
Name	OJ991226_45.0419.C88.o1.tm	Method	TBLASTX:Maize
Start	177	End	477
GI	none	Score	249
Exons	177..305, 193..477, 196..477		

Seq. No.	51817	Seq. ID	OJ991226_45.0419.C89
Gene No.	109650	Strand	-
Start	62	End	393
Name	OJ991226_45.0419.C89.o1.gs	Method	GENSCAN
Start	62	End	393
GI	none	Score	.84
Exons	62..244, 315..393		

Seq. No.	51818	Seq. ID	OJ991226_45.0419.C95
Gene No.	109651	Strand	+
Start	21	End	1030
Name	OJ991226_45.0419.C95.o1.np	Method	AAT/NAP
Start	21	End	1030
GI	6907088	Score	506
Exons	21..158, 334..579, 1013..1030		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51818	Seq. ID	OJ991226_45.0419.C95
Gene No.	109651	Strand	+
Start	21	End	1030
Name	OJ991226_45.0419.C95.o2.np	Method	AAT/NAP
Start	702	End	1030
GI	6069659	Score	96
Exons	702..832, 1002..1030		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	51819	Seq. ID	OJ991226_45.0419.C96
Gene No.	109652	Strand	-
Start	572	End	915
Name	OJ991226_45.0419.C96.o1.gs	Method	GENSCAN
Start	572	End	915
GI	none	Score	.43
Exons	572..915		

Seq. No.	51820	Seq. ID	OJ991226_45.0419.C104
Gene No.	109653	Strand	+
Start	53	End	980
Name	OJ991226_45.0419.C104.o1.gs	Method	GENSCAN
Start	53	End	980
GI	none	Score	.58
Exons	53..264, 781..980		

Seq. No.	51820	Seq. ID	OJ991226_45.0419.C104
Gene No.	109654	Strand	-
Start	1	End	387
Name	OJ991226_45.0419.C104.o1.np	Method	AAT/NAP
Start	1	End	387
GI	7488319	Score	79

Exons	1..218, 337..387		
GI Descrip.	RNA-directed DNA polymerase homolog T13L16.7 - Arabidopsis thaliana (fragment)		

Seq. No.	51820	Seq. ID	OJ991226_45.0419.C104
Gene No.	109655	Strand	-
Start	817	End	1032
Name	OJ991226_45.0419.C104.o1.tm	Method	TBLASTX:Maize
Start	6	End	216
GI	none	Score	69
Exons	6..215, 25..216, 27..179, 49..216		

Seq. No.	51820	Seq. ID	OJ991226_45.0419.C104
Gene No.	109655	Strand	-
Start	817	End	1032
Name	OJ991226_45.0419.C104.o1.tw	Method	TBLASTX:Wheat
Start	24	End	216
GI	none	Score	58
Exons	24..212, 70..216		

Seq. No.	51820	Seq. ID	OJ991226_45.0419.C104
Gene No.	109655	Strand	-
Start	817	End	1032
Name	OJ991226_45.0419.C104.o1.gp	Method	AAT/GAP
Start	817	End	1032
GI	5039082	Score	332
Exons	817..1032		
GI Descrip.	461812/sp\|Q05047\|CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51821	Seq. ID	OJ991106_41.0419.C1
Gene No.	109656	Strand	+
Start	182	End	342
Name	OJ991106_41.0419.C1.o1.gs	Method	GENSCAN
Start	182	End	342
GI	none	Score	.51
Exons	182..342		

Seq. No.	51821	Seq. ID	OJ991106_41.0419.C1
Gene No.	109657	Strand	+
Start	677	End	2035
Name	OJ991106_41.0419.C1.o1.np	Method	AAT/NAP
Start	677	End	2035
GI	5852093	Score	67
Exons	677..783, 2005..2035		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51822	Seq. ID	OJ991106_41.0419.C2
Gene No.	109658	Strand	+
Start	209	End	670
Name	OJ991106_41.0419.C2.o1.gs	Method	GENSCAN
Start	209	End	670
GI	none	Score	.57
Exons	209..359, 624..670		

Seq. No.	51823	Seq. ID	OJ991106_41.0419.C4
Gene No.	109659	Strand	+
Start	291	End	578
Name	OJ991106_41.0419.C4.o1.gs	Method	GENSCAN
Start	291	End	578
GI	none	Score	.53
Exons	291..578		

Seq. No.	51824	Seq. ID	OJ991106_41.0419.C5
Gene No.	109660	Strand	-
Start	399	End	3467
Name	OJ991106_41.0419.C5.o1.gs	Method	GENSCAN
Start	399	End	3467
GI	none	Score	.72
Exons	399..715, 800..866, 953..1033, 1609..1816, 2337..2502, 2990..3467		

Seq. No.	51824	Seq. ID	OJ991106_41.0419.C5
Gene No.	109660	Strand	-
Start	399	End	3467
Name	OJ991106_41.0419.C5.o1.np	Method	AAT/NAP
Start	432	End	3333
GI	5668787	Score	1144
Exons	432..725, 800..866, 953..1033, 1255..1391, 1609..1819, 2434..2564, 2979..3126, 3211..3333		
GI Descrip.	(AC007894) F21H2.12 [Arabidopsis thaliana]		

Seq. No.	51824	Seq. ID	OJ991106_41.0419.C5
Gene No.	109661	Strand	-
Start	3785	End	3859
Name	OJ991106_41.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	411	End	866
GI	none	Score	326
Exons	411..740, 453..740, 800..865, 801..866		

Seq. No.	51824	Seq. ID	OJ991106_41.0419.C5
Gene No.	109661	Strand	-
Start	3785	End	3859
Name	OJ991106_41.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	952	End	2527
GI	none	Score	118
Exons	952..1035, 953..1036, 1250..1423, 1254..1424, 1255..1425, 1256..1426, 1326..1424, 1603..1815, 1604..1816, 1604..1816, 2337..2525, 2342..2527		

Seq. No.	51824	Seq. ID	OJ991106_41.0419.C5
Gene No.	109661	Strand	-
Start	3785	End	3859
Name	OJ991106_41.0419.C5.o1.gp	Method	AAT/GAP
Start	3785	End	3859
GI	LIB3477-003-P1-K1-E9	Score	98
Exons	3785..3859		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51825	Seq. ID	OJ991106_41.0419.C6

Gene No.	109662	Strand	-
Start	594	End	683
Name	OJ991106_41.0419.C6.o1.gs	Method	GENSCAN
Start	594	End	683
GI	none	Score	.81
Exons	594..683		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109663	Strand	+
Start	595	End	2727
Name	OJ991106_41.0419.C8.o1.np	Method	AAT/NAP
Start	595	End	2724
GI	7488412	Score	1078
Exons	595..713, 1597..1782, 1898..2079, 2328..2724		
GI Descrip.	ubiquitin-specific proteinase (EC 3.4.-.-) UBP3 - Arabidopsis thaliana gi\|2347098\|gb\|AAB67966.1\| (U76845) ubiquitin-specific protease [Arabidopsis thaliana] gi\|4490742\|emb\|CAB38904.1\| (AL035708) ubiquitin-specific protease (AtUBP3) [Arabidopsis thaliana] gi\|7271046\|emb\|CAB80654.1\| (AL161596) ubiquitin-specific protease (AtUBP3) [Arabidopsis thaliana]		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109663	Strand	+
Start	595	End	2727
Name	OJ991106_41.0419.C8.o1.gp	Method	AAT/GAP
Start	597	End	715
GI	9121_1.R1084	Score	165
Exons	597..715		
GI Descrip.	'2347100 1.0e-132 (U76846) ubiquitin-specific protease [Arabidopsis thaliana] >gi_4567196_gb_AAD23612.1_AC007168_3 (AC007168) putative ubiquitin-specific protease [Arabidopsis thaliana]'		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109663	Strand	+
Start	595	End	2727
Name	OJ991106_41.0419.C8.o1.gs	Method	GENSCAN
Start	615	End	2727
GI	none	Score	.99
Exons	615..713, 1597..1782, 1898..2079, 2328..2727		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109663	Strand	+
Start	595	End	2727
Name	OJ991106_41.0419.C8.o2.gp	Method	AAT/GAP
Start	1600	End	2514
GI	LIB3434-003-P1-K1-B7	Score	893
Exons	1600..1782, 1898..2079, 2328..2514		
GI Descrip.	'2347100 2.0e-57 (U76846) ubiquitin-specific protease [Arabidopsis thaliana] >gi_4567196_gb_AAD23612.1_AC007168_3 (AC007168) putative ubiquitin-specific protease [Arabidopsis thaliana]'		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109664	Strand	-
Start	2556	End	3049
Name	OJ991106_41.0419.C8.o3.gp	Method	AAT/GAP

Start	2556	End	3049
GI	3795_1.R1084	Score	976
Exons	2556..3049		
GI Descrip.	'2347098 1.0e-20 (U76845) ubiquitin-specific protease [Arabidopsis thaliana] >gi_4490742_emb_CAB38904.1_ (AL035708) ubiquitin-specific protease (AtUBP3) [Arabidopsis thaliana]'		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109665	Strand	-
Start	3420	End	3577
Name	OJ991106_41.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	602	End	2769
GI	none	Score	168
Exons	602..715, 603..713, 611..715, 1556..1684, 1584..1655, 1594..1692, 1596..1691, 1895..2077, 1897..2079, 1898..2077, 2058..2081, 2322..2486, 2326..2487, 2472..2723, 2489..2713, 2491..2769		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109665	Strand	-
Start	3420	End	3577
Name	OJ991106_41.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	603	End	2741
GI	none	Score	171
Exons	603..713, 611..715, 614..709, 1550..1783, 1594..1782, 1596..1787, 1891..2052, 1891..2079, 1898..2077, 2322..2405, 2325..2432, 2326..2457, 2391..2741, 2407..2739		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109665	Strand	-
Start	3420	End	3577
Name	OJ991106_41.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	1718	End	2493
GI	none	Score	61
Exons	1718..1783, 1732..1782, 1895..2077, 1897..2079, 1898..2077, 2322..2492, 2325..2489, 2326..2493		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109665	Strand	-
Start	3420	End	3577
Name	OJ991106_41.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	2493	End	2715
GI	none	Score	80
Exons	2493..2573, 2494..2553, 2526..2666, 2532..2708, 2533..2712, 2536..2715		

Seq. No.	51826	Seq. ID	OJ991106_41.0419.C8
Gene No.	109665	Strand	-
Start	3420	End	3577
Name	OJ991106_41.0419.C8.o2.gs	Method	GENSCAN
Start	3420	End	3577
GI	none	Score	.5
Exons	3420..3577		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283

Name	OJ991106_41.0419.C11.o1.gs	Method	GENSCAN
Start	216	End	3153
GI	none	Score	.96
Exons	216..727, 1443..1589, 1852..2754, 2804..3011, 3097..3153		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o1.np	Method	AAT/NAP
Start	226	End	2487
GI	6587871	Score	832
Exons	226..727, 1443..1589, 1852..2487		
GI Descrip.	(AC012680) unknown protein [Arabidopsis thaliana]		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o1.gp	Method	AAT/GAP
Start	352	End	1523
GI	2428468	Score	849
Exons	352..727, 1443..1523		
GI Descrip.	4262154/gb\|AAD14454\| 5.0e-42 (AC005275) putative protein phosphatase regulatory subunit [Arabidopsis thaliana]		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	384	End	1557
GI	none	Score	39
Exons	384..485, 385..486, 489..728, 499..723, 1456..1557		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	387	End	1548
GI	none	Score	283
Exons	387..737, 445..729, 606..698, 1441..1548, 1456..1548		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	405	End	1557
GI	none	Score	77
Exons	405..737, 408..470, 439..729, 529..738, 1441..1485, 1459..1557		

Seq. No.	51827	Seq. ID	OJ991106_41.0419.C11
Gene No.	109666	Strand	-
Start	216	End	3283
Name	OJ991106_41.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	1823	End	3283
GI	none	Score	130
Exons	1823..2047, 1854..2006, 2033..2080, 2135..2221, 2136..2219, 2267..2311, 2357..2485, 2420..2497, 2487..2528, 2516..2587, 2591..2776, 2597..2683, 2943..3008, 3106..3153, 3106..3153,		

3233..3283

Seq. No.	51828	Seq. ID	OJ991106_41.0419.C12
Gene No.	109667	Strand	+
Start	1	End	1795
Name	OJ991106_41.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1795
GI	7242910	Score	92
Exons	1..21, 1475..1628, 1713..1795		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	51828	Seq. ID	OJ991106_41.0419.C12
Gene No.	109668	Strand	-
Start	427	End	2943
Name	OJ991106_41.0419.C12.o1.gs	Method	GENSCAN
Start	427	End	2943
GI	none	Score	.56
Exons	427..486, 623..889, 1417..1558, 1873..1996, 2835..2943		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o1.gs	Method	GENSCAN
Start	2039	End	6490
GI	none	Score	.59
Exons	2039..2211, 2380..2506, 2541..2758, 3328..3444, 3669..3829, 4709..4848, 5148..5213, 5308..5418, 5441..5572, 6165..6339, 6419..6490		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	2504	End	2823
GI	none	Score	181
Exons	2504..2680, 2505..2609, 2510..2683, 2729..2758, 2761..2823		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o1.gp	Method	AAT/GAP
Start	4804	End	5430
GI	287140	Score	734
Exons	4804..5053, 5148..5213, 5308..5430		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	4937	End	5213
GI	none	Score	159
Exons	4937..5056, 4938..5063, 4938..5063, 4942..5064, 5106..5213, 5151..5213		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573

Name	OJ991106_41.0419.C13.o2.np	Method	AAT/NAP
Start	4955	End	6573
GI	3183077	Score	275
Exons	4955..5095, 5290..5418, 5534..5572, 5662..5743, 5877..5980, 6165..6303, 6419..6573		
GI Descrip.	PROBABLE 1,4-DIHYDROXY-2-NAPHTHOATE OCTAPRENYLTRANSFERASE (DHNA-OCTAPRENYLTRANSFERASE) gi\|7470736\|pir\|\|S75469 menaquinone biosynthesis protein - Synechocystis sp. (strain PCC 6803) gi\|1653114\|dbj\|BAA18030.1\| (D90911) menaquinone biosynthesis protein [Synechocystis sp.]		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	5320	End	6251
GI	none	Score	78
Exons	5320..5418, 5321..5419, 5324..5431, 5529..5573, 5531..5572, 5532..5573, 5659..5760, 5669..5761, 5867..5980, 5878..5982, 5901..5984, 6165..6251, 6165..6251		

Seq. No.	51829	Seq. ID	OJ991106_41.0419.C13
Gene No.	109669	Strand	-
Start	2039	End	6573
Name	OJ991106_41.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	5531	End	6514
GI	none	Score	113
Exons	5531..5572, 5659..5745, 5858..5980, 5901..5981, 6165..6317, 6419..6514, 6421..6492		

Seq. No.	51830	Seq. ID	OJ991106_41.0419.C14
Gene No.	109670	Strand	-
Start	82	End	899
Name	OJ991106_41.0419.C14.o1.gs	Method	GENSCAN
Start	82	End	899
GI	none	Score	.63
Exons	82..337, 737..899		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109671	Strand	+
Start	5025	End	5335
Name	OJ991106_41.0419.C17.o2.gs	Method	GENSCAN
Start	5025	End	5318
GI	none	Score	.72
Exons	5025..5318		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109671	Strand	+
Start	5025	End	5335
Name	OJ991106_41.0419.C17.o2.np	Method	AAT/NAP
Start	5034	End	5335
GI	6910584	Score	130
Exons	5034..5335		
GI Descrip.	(AC006424) CDS [Arabidopsis thaliana]		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109672	Strand	-

Start	1	End	1372
Name	OJ991106_41.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1372
GI	7340860	Score	99
Exons	1..67, 1247..1372		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109673	Strand	
Start	5037	End	5324
Name	OJ991106_41.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	5037	End	5324
GI	none	Score	53
Exons	5037..5084, 5127..5324, 5171..5323		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109673	Strand	
Start	5037	End	5324
Name	OJ991106_41.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	5130	End	5312
GI	none	Score	231
Exons	5130..5312, 5171..5311		

Seq. No.	51831	Seq. ID	OJ991106_41.0419.C17
Gene No.	109673	Strand	
Start	5037	End	5324
Name	OJ991106_41.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	5139	End	5324
GI	none	Score	248
Exons	5139..5324, 5171..5323		

Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109674	Strand	+
Start	5052	End	8750
Name	OJ991106_41.0419.C18.o1.np	Method	AAT/NAP
Start	5052	End	8098
GI	6910584	Score	706
Exons	5052..5080, 6423..6963, 7047..7134, 7212..7268, 7388..7626, 7728..7861, 8036..8098		
GI Descrip.	(AC006424) CDS [Arabidopsis thaliana]		

Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109674	Strand	+
Start	5052	End	8750
Name	OJ991106_41.0419.C18.o2.gs	Method	GENSCAN
Start	6429	End	8750
GI	none	Score	.76
Exons	6429..6929, 7016..7134, 7212..7268, 7388..7626, 7728..7846, 7955..8093, 8140..8268, 8617..8750		

Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109675	Strand	+
Start	11794	End	14088
Name	OJ991106_41.0419.C18.o3.np	Method	AAT/NAP
Start	11794	End	14088
GI	7339707	Score	134

Exons	11794..12464, 14016..14088		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109676	Strand	+
Start	21248	End	21350
Name	OJ991106_41.0419.C18.o2.gp	Method	AAT/GAP
Start	21248	End	21350
GI	none	Score	185
Exons	21248..21350		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	6399	End	6917
GI	none	Score	590
Exons	6399..6917, 6413..6916		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	6410	End	8047
GI	none	Score	389
Exons	6410..6907, 6414..6935, 7049..7132, 7398..7628, 7448..7627, 7718..7846, 7727..7801, 7931..8047		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	6413	End	6707
GI	none	Score	314
Exons	6413..6676, 6414..6626, 6621..6707, 6629..6706		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	7213	End	7980
GI	none	Score	77
Exons	7213..7263, 7398..7628, 7442..7627, 7717..7773, 7718..7846, 7727..7846, 7954..7980, 7955..7978		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	7398	End	8059
GI	none	Score	195
Exons	7398..7628, 7718..7843, 7949..8059		
Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o3.gs	Method	GENSCAN

Start	9122	End	10184
GI	none	Score	.91
Exons	9122..9787, 9789..10184		

Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o2.np	Method	AAT/NAP
Start	9180	End	10202
GI	7485807	Score	227
Exons	9180..9266, 9646..10202		
GI Descrip.	hypothetical protein F19I3.23 - Arabidopsis thaliana gi\|3033395\|gb\|AAC12839.1\| (AC004238) putative C3HC4-type RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	51832	Seq. ID	OJ991106_41.0419.C18
Gene No.	109677	Strand	-
Start	9122	End	10202
Name	OJ991106_41.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	9645	End	9875
GI	none	Score	92
Exons	9645..9800, 9650..9787, 9804..9875		

Seq. No.	51833	Seq. ID	OJ991106_41.0419.C19
Gene No.	109678	Strand	+
Start	49	End	830
Name	OJ991106_41.0419.C19.o1.np	Method	AAT/NAP
Start	49	End	818
GI	3641870	Score	344
Exons	49..287, 357..552, 726..818		
GI Descrip.	(AJ011013) hypothetical protein [Cicer arietinum]		

Seq. No.	51833	Seq. ID	OJ991106_41.0419.C19
Gene No.	109678	Strand	+
Start	49	End	830
Name	OJ991106_41.0419.C19.o1.gs	Method	GENSCAN
Start	94	End	830
GI	none	Score	1
Exons	94..552, 726..830		

Seq. No.	51834	Seq. ID	OJ991106_41.0419.C20
Gene No.	109679	Strand	+
Start	147	End	282
Name	OJ991106_41.0419.C20.o1.gs	Method	GENSCAN
Start	147	End	282
GI	none	Score	.7
Exons	147..282		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2301	End	3291
GI	none	Score	35
Exons	2301..2342, 2431..2478, 2445..2480, 2586..2660, 2601..2723, 2672..2722, 2806..2856, 2948..3187, 3004..3291, 3233..3274		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.gp	Method	AAT/GAP
Start	2394	End	3122
GI	LIB3432-041-P1-K1-G2	Score	770
Exons	2394..2480, 2596..2729, 2806..2849, 2947..3122		
GI Descrip.	'2961356/emb\|CAA18114.1\| 2.0e-24 (AL022140) alcohol dehydrogenase like protein [Arabidopsis thaliana]'		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.np	Method	AAT/NAP
Start	2427	End	3498
GI	1076579	Score	391
Exons	2427..2480, 2596..2726, 2806..2849, 2947..3275, 3461..3498		
GI Descrip.	alcohol dehydrogenase homolog ADH3a - tomato		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.gs	Method	GENSCAN
Start	2444	End	3272
GI	none	Score	.6
Exons	2444..2480, 2596..2729, 2826..2930, 2947..3272		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	2601	End	3043
GI	none	Score	173
Exons	2601..2723, 2818..2856, 2948..3043		

Seq. No.	51835	Seq. ID	OJ991106_41.0419.C21
Gene No.	109680	Strand	+
Start	2394	End	3498
Name	OJ991106_41.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	2601	End	3187
GI	none	Score	142
Exons	2601..2720, 2818..2844, 2948..3187, 3022..3123		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1169
GI	6587844	Score	497
Exons	1..168, 256..335, 427..487, 583..678, 788..949, 1056..1169		
GI Descrip.	(AC006551) Very similar to alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.gs	Method	GENSCAN

Start	99	End	949
GI	none	Score	.68
Exons	99..168, 423..487, 583..660, 743..949		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	237	End	1163
GI	none	Score	98
Exons	237..332, 250..336, 421..492, 422..490, 582..659, 586..660, 781..861, 785..862, 865..927, 866..946, 1056..1163		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	255	End	1169
GI	none	Score	125
Exons	255..332, 256..333, 409..492, 419..490, 555..674, 555..674, 582..674, 582..674, 595..675, 595..675, 773..949, 773..949, 781..954, 781..954, 787..951, 787..951, 795..1025, 1053..1169, 1053..1097, 1077..1169		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.gp	Method	AAT/GAP
Start	783	End	1353
GI	6025073	Score	797
Exons	783..949, 1056..1353		
GI Descrip.	2961356/emb\|CAA18114.1\| 2.0e-24 (AL022140) alcohol dehydrogenase like protein [Arabidopsis thaliana]		

Seq. No.	51836	Seq. ID	OJ991106_41.0419.C22
Gene No.	109681	Strand	+
Start	1	End	1353
Name	OJ991106_41.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	871	End	1169
GI	none	Score	118
Exons	871..954, 872..949, 1053..1169, 1077..1169		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109682	Strand	+
Start	1	End	7401
Name	OJ991106_41.0419.C23.o2.np	Method	AAT/NAP
Start	1	End	3645
GI	6069646	Score	162
Exons	1..39, 3470..3645		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109682	Strand	+

Start	1	End	7401
Name	OJ991106_41.0419.C23.o1.gp	Method	AAT/GAP
Start	1927	End	3301
GI	56057_1.R1084	Score	473
Exons	1927..2012, 2166..2302, 2844..2890, 3280..3301		
GI Descrip.	'1076580/pir\|\|S52036 1.0e-29 alcohol dehydrogenase homolog ADH3b - tomato >gi_913446_bbs_160508 (S75487) alcohol dehydrogenase ADH {EC 1.1.1.1} [Lycopersicon esculentum=tomatoes, cv. red cherry, Peptide, 390 aa] [Lycopersicon esculentum]'		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109682	Strand	+
Start	1	End	7401
Name	OJ991106_41.0419.C23.o1.np	Method	AAT/NAP
Start	2105	End	7401
GI	1076580	Score	195
Exons	2105..2302, 2844..2897, 7328..7401		
GI Descrip.	alcohol dehydrogenase homolog ADH3b - tomato gi\|913446\|bbs\|160508 (S75487) alcohol dehydrogenase ADH {EC 1.1.1.1} [Lycopersicon esculentum=tomatoes, cv. red cherry, Peptide, 390 aa] [Lycopersicon esculentum]		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109683	Strand	-
Start	1886	End	2377
Name	OJ991106_41.0419.C23.o1.gs	Method	GENSCAN
Start	1886	End	2377
GI	none	Score	.91
Exons	1886..2377		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109684	Strand	-
Start	5502	End	8180
Name	OJ991106_41.0419.C23.o2.gp	Method	AAT/GAP
Start	5459	End	5889
GI	33357_1.R1084	Score	826
Exons	5459..5889		
GI Descrip.	'4262154/gb\|AAD14454\| 5.0e-42 (AC005275) putative protein phosphatase regulatory subunit [Arabidopsis thaliana]'		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109684	Strand	-
Start	5502	End	8180
Name	OJ991106_41.0419.C23.o2.gs	Method	GENSCAN
Start	5502	End	6785
GI	none	Score	.82
Exons	5502..6215, 6561..6785		

Seq. No.	51837	Seq. ID	OJ991106_41.0419.C23
Gene No.	109684	Strand	-
Start	5502	End	8180
Name	OJ991106_41.0419.C23.o3.np	Method	AAT/NAP
Start	5609	End	8180
GI	4263655	Score	60
Exons	5609..6019, 8117..8180		
GI Descrip.	(AC006136) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109685	Strand	+
Start	2031	End	3771
Name	OJ991106_41.0419.C25.o1.np	Method	AAT/NAP
Start	2031	End	3471
GI	913445	Score	840
Exons	2031..2406, 2501..2583, 2658..2738, 2848..3003, 3097..3258, 3355..3471		
GI Descrip.	(S75487) alcohol dehydrogenase ADH=alcohol dehydrogenase homolog {EC 1.1.1.1} [Lycopersicon esculentum=tomatoes, cv. red cherry, Peptide, 389 aa] [Lycopersicon esculentum]		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109685	Strand	+
Start	2031	End	3771
Name	OJ991106_41.0419.C25.o1.gs	Method	GENSCAN
Start	2034	End	3471
GI	none	Score	.94
Exons	2034..2406, 2843..3003, 3097..3258, 3331..3471		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109685	Strand	+
Start	2031	End	3771
Name	OJ991106_41.0419.C25.o1.gp	Method	AAT/GAP
Start	2078	End	2181
GI	56057_1.R1084	Score	173
Exons	2078..2181		
GI Descrip.	'1076580/pir\|\|S52036 1.0e-29 alcohol dehydrogenase homolog ADH3b - tomato >gi_913446_bbs_160508 (S75487) alcohol dehydrogenase ADH {EC 1.1.1.1} [Lycopersicon esculentum=tomatoes, cv. red cherry, Peptide, 390 aa] [Lycopersicon esculentum]'		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109685	Strand	+
Start	2031	End	3771
Name	OJ991106_41.0419.C25.o2.gp	Method	AAT/GAP
Start	2323	End	3771
GI	48613_1.R1084	Score	1759
Exons	2323..2406, 2501..2583, 2658..2733, 2843..3003, 3097..3258, 3355..3771		
GI Descrip.	'913445/bbs\|160507 2.0e-65 (S75487) alcohol dehydrogenase ADH=alcohol dehydrogenase homolog {EC 1.1.1.1} [Lycopersicon esculentum=tomatoes, cv. red cherry, Peptide, 389 aa] [Lycopersicon esculentum]'		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109686	Strand	+
Start	4031	End	4540
Name	OJ991106_41.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	2061	End	3471
GI	none	Score	210
Exons	2061..2393, 2499..2573, 2500..2562, 2657..2707, 2658..2744, 2839..2883, 2844..2882, 2889..2987, 2890..2985, 3094..3258, 3096..3260, 3331..3471		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25

Gene No.	109686	Strand	+
Start	4031	End	4540
Name	OJ991106_41.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	2061	End	3456
GI	none	Score	112
Exons	2061..2234, 2268..2393, 2499..2585, 2500..2586, 2658..2744, 2845..2883, 2883..2987, 2890..2985, 2973..3008, 3103..3258, 3331..3456		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109686	Strand	+
Start	4031	End	4540
Name	OJ991106_41.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	2082	End	3477
GI	none	Score	118
Exons	2082..2258, 2255..2392, 2271..2393, 2496..2585, 2497..2586, 2657..2734, 2658..2744, 2842..2892, 2880..2972, 2893..2994, 3100..3258, 3102..3248, 3331..3477		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109686	Strand	+
Start	4031	End	4540
Name	OJ991106_41.0419.C25.o3.gp	Method	AAT/GAP
Start	4031	End	4540
GI	44406_1.R1084	Score	936
Exons	4031..4540		
GI Descrip.	'3819495/emb\|AJ234712.1\|HVU234712 1.0e-35 Hordeum vulgare genomic DNA fragment; clone MWG2025.rev'		

Seq. No.	51838	Seq. ID	OJ991106_41.0419.C25
Gene No.	109687	Strand	
Start	4841	End	5122
Name	OJ991106_41.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	4841	End	5122
GI	none	Score	188
Exons	4841..5122		

Seq. No.	51839	Seq. ID	OJ991106_41.0419.C27
Gene No.	109688	Strand	-
Start	1	End	188
Name	OJ991106_41.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	188
GI	2427827	Score	361
Exons	1..188		

Seq. No.	51840	Seq. ID	OJ991106_41.0419.C28
Gene No.	109689	Strand	+
Start	107	End	549
Name	OJ991106_41.0419.C28.o1.gs	Method	GENSCAN
Start	107	End	549
GI	none	Score	.98
Exons	107..191, 383..549		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109690	Strand	+
Start	156	End	328
Name	OJ991106_41.0419.C30.o1.gs	Method	GENSCAN

Start	156	End	328
GI	none	Score	.81
Exons	156..328		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109691	Strand	+
Start	4291	End	14043
Name	OJ991106_41.0419.C30.o3.np	Method	AAT/NAP
Start	4291	End	14043
GI	4539658	Score	217
Exons	4291..4417, 4458..4695, 13792..13851, 14016..14043		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109691	Strand	+
Start	4291	End	14043
Name	OJ991106_41.0419.C30.o4.gs	Method	GENSCAN
Start	4771	End	5214
GI	none	Score	.57
Exons	4771..4890, 4905..5046, 5072..5214		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109692	Strand	-
Start	1	End	2976
Name	OJ991106_41.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	2976
GI	6016874	Score	2244
Exons	1..322, 800..1139, 1257..1436, 1830..1989, 2380..2612, 2677..2814, 2898..2976		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109692	Strand	-
Start	1	End	2976
Name	OJ991106_41.0419.C30.o2.gs	Method	GENSCAN
Start	796	End	2976
GI	none	Score	.94
Exons	796..2976		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109692	Strand	-
Start	1	End	2976
Name	OJ991106_41.0419.C30.o1.gp	Method	AAT/GAP
Start	1779	End	2287
GI	uC-osflcyp110c07b1	Score	970
Exons	1779..2287		
GI Descrip.	'4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109693	Strand	-
Start	3575	End	4122
Name	OJ991106_41.0419.C30.o2.np	Method	AAT/NAP

Start	3375	End	3532
GI	6907084	Score	150
Exons	3375..3532		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109693	Strand	-
Start	3575	End	4122
Name	OJ991106_41.0419.C30.o3.gs	Method	GENSCAN
Start	3575	End	4122
GI	none	Score	.62
Exons	3575..3698, 4019..4122		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109694	Strand	-
Start	5387	End	8162
Name	OJ991106_41.0419.C30.o5.gs	Method	GENSCAN
Start	5387	End	8162
GI	none	Score	.54
Exons	5387..5796, 6588..6722, 6799..6942, 7195..7347, 7870..8031, 8045..8162		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109695	Strand	-
Start	10073	End	11088
Name	OJ991106_41.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	862	End	1105
GI	none	Score	97
Exons	862..1095, 947..1105		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109695	Strand	-
Start	10073	End	11088
Name	OJ991106_41.0419.C30.o4.tm	Method	TBLASTX:Maize
Start	1217	End	1569
GI	none	Score	136
Exons	1217..1558, 1288..1569		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109695	Strand	-
Start	10073	End	11088
Name	OJ991106_41.0419.C30.o3.tm	Method	TBLASTX:Maize
Start	1774	End	2088
GI	none	Score	108
Exons	1774..2001, 1775..1993, 2014..2088		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109695	Strand	-
Start	10073	End	11088
Name	OJ991106_41.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2182	End	2628
GI	none	Score	102
Exons	2182..2220, 2215..2271, 2308..2556, 2348..2557, 2542..2628		

Seq. No.	51841	Seq. ID	OJ991106_41.0419.C30
Gene No.	109695	Strand	-
Start	10073	End	11088

Name	OJ991106_41.0419.C30.o6.gs	Method	GENSCAN
Start	10073	End	11088
GI	none	Score	.75
Exons	10073..10243, 10270..10377, 10823..10934, 10955..11088		

Seq. No.	51842	Seq. ID	OJ991106_41.0419.C31
Gene No.	109696	Strand	-
Start	1	End	191
Name	OJ991106_41.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	191
GI	7339707	Score	83
Exons	1..191		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	51842	Seq. ID	OJ991106_41.0419.C31
Gene No.	109697	Strand	-
Start	872	End	959
Name	OJ991106_41.0419.C31.o1.gs	Method	GENSCAN
Start	872	End	959
GI	none	Score	.95
Exons	872..959		

Seq. No.	51843	Seq. ID	OJ991106_41.0419.C33
Gene No.	109698	Strand	+
Start	640	End	3001
Name	OJ991106_41.0419.C33.o1.gs	Method	GENSCAN
Start	640	End	3001
GI	none	Score	.49
Exons	640..811, 1146..1186, 1313..1461, 1786..2318, 2505..3001		

Seq. No.	51843	Seq. ID	OJ991106_41.0419.C33
Gene No.	109698	Strand	+
Start	640	End	3001
Name	OJ991106_41.0419.C33.o1.np	Method	AAT/NAP
Start	1794	End	2998
GI	1196998	Score	2088
Exons	1794..2998		
GI Descrip.	(J01829) unknown protein [Transposon Tn10] gi\|5103202\|dbj\|BAA78838.1\| (AP000342) transposase of Tn10 [Plasmid R100] gi\|5706382\|dbj\|BAA83097.1\| (AB026428) transposase [Methylomonas aminofaciens] gi\|5738092\|gb\|AAD50250.1\|AF162223_9 (AF162223) IS10-right transposase [Shigella flexneri] gi\|6721110\|gb\|AAF26764.1\|AC007396_13 (AC007396) T4O12.21 [Arabidopsis thaliana]		

Seq. No.	51843	Seq. ID	OJ991106_41.0419.C33
Gene No.	109699	Strand	-
Start	3266	End	3927
Name	OJ991106_41.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	1160	End	3851
GI	none	Score	92
Exons	1160..1321, 1161..1322, 3792..3851		

Seq. No.	51843	Seq. ID	OJ991106_41.0419.C33
Gene No.	109699	Strand	-
Start	3266	End	3927
Name	OJ991106_41.0419.C33.o1.tc	Method	TBLASTX:Cress

Start	1652	End	1834
GI	none	Score	215
Exons	1652..1834, 1665..1832, 1666..1833, 1688..1834		

Seq. No.	51843	Seq. ID	OJ991106_41.0419.C33
Gene No.	109699	Strand	-
Start	3266	End	3927
Name	OJ991106_41.0419.C33.o2.gs	Method	GENSCAN
Start	3266	End	3927
GI	none	Score	.88
Exons	3266..3295, 3530..3586, 3798..3927		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109700	Strand	+
Start	63	End	344
Name	OJ991106_41.0419.C34.o1.gs	Method	GENSCAN
Start	63	End	344
GI	none	Score	.9
Exons	63..344		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109701	Strand	+
Start	3892	End	4565
Name	OJ991106_41.0419.C34.o3.gs	Method	GENSCAN
Start	3892	End	4565
GI	none	Score	.65
Exons	3892..3990, 4006..4143, 4209..4565		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109702	Strand	-
Start	1630	End	3747
Name	OJ991106_41.0419.C34.o1.gp	Method	AAT/GAP
Start	1291	End	2165
GI	none	Score	1102
Exons	1291..1818, 2117..2165		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109702	Strand	-
Start	1630	End	3747
Name	OJ991106_41.0419.C34.o2.gs	Method	GENSCAN
Start	1630	End	3599
GI	none	Score	.98
Exons	1630..1818, 2117..2388, 3173..3274, 3368..3599		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109702	Strand	-
Start	1630	End	3747
Name	OJ991106_41.0419.C34.o1.np	Method	AAT/NAP
Start	1642	End	3605
GI	6503012	Score	711
Exons	1642..1818, 2117..2388, 3173..3278, 3387..3605		
GI Descrip.	(AF174428) FH protein interacting protein FIP1 [Arabidopsis thaliana]		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109702	Strand	-
Start	1630	End	3747

Name	OJ991106_41.0419.C34.o2.gp	Method	AAT/GAP
Start	2187	End	3747
GI	10437_1.R1084	Score	1262
Exons	2187..2388, 3173..3274, 3368..3747		
GI Descrip.	'4103635 1.0e-16 (AF026538) ABA-responsive protein [Hordeum vulgare]'		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	1474	End	1824
GI	none	Score	56
Exons	1474..1533, 1478..1534, 1586..1633, 1587..1820, 1587..1820, 1588..1821, 1657..1824		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	1654	End	2249
GI	none	Score	122
Exons	1654..1821, 1663..1800, 1679..1819, 2114..2248, 2145..2249		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o2.ts	Method	TBLASTX:Soybean
Start	1654	End	1815
GI	none	Score	138
Exons	1654..1815, 1679..1813		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	2114	End	2393
GI	none	Score	219
Exons	2114..2392, 2145..2393		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	2163	End	2447
GI	none	Score	100
Exons	2163..2291, 2168..2389, 2307..2447		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34
Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o3.tm	Method	TBLASTX:Maize
Start	3161	End	3522
GI	none	Score	114
Exons	3161..3274, 3168..3275, 3174..3287, 3366..3419, 3448..3522		

Seq. No.	51844	Seq. ID	OJ991106_41.0419.C34

Gene No.	109703	Strand	-
Start	6107	End	6358
Name	OJ991106_41.0419.C34.o4.gs	Method	GENSCAN
Start	6107	End	6358
GI	none	Score	.43
Exons	6107..6301, 6336..6358		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109704	Strand	+
Start	1319	End	4138
Name	OJ991106_41.0419.C35.o1.np	Method	AAT/NAP
Start	1319	End	4135
GI	7487322	Score	1504
Exons	1319..1383, 2128..2648, 2777..3299, 3380..4135		
GI Descrip.	hypothetical protein T22A6.220 - Arabidopsis thaliana gi\|5051781\|emb\|CAB45074.1\| (AL078637) transport inhibitor response-like protein [Arabidopsis thaliana] gi\|7269289\|emb\|CAB79349.1\| (AL161561) transport inhibitor response-like protein [Arabidopsis thaliana]		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109704	Strand	+
Start	1319	End	4138
Name	OJ991106_41.0419.C35.o1.gs	Method	GENSCAN
Start	2119	End	4138
GI	none	Score	.85
Exons	2119..2648, 2777..3299, 3380..4138		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109704	Strand	+
Start	1319	End	4138
Name	OJ991106_41.0419.C35.o1.gp	Method	AAT/GAP
Start	2773	End	3511
GI	24208_1.R1084	Score	1283
Exons	2773..3299, 3380..3511		
GI Descrip.	'5051781/emb\|CAB45074.1\| 7.0e-40 (AL078637) transport inhibitor response-like protein [Arabidopsis thaliana]'		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o2.tm	Method	TBLASTX:Maize
Start	2089	End	2559
GI	none	Score	74
Exons	2089..2214, 2155..2559, 2166..2297, 2412..2522		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o3.ts	Method	TBLASTX:Soybean
Start	2179	End	2439
GI	none	Score	211
Exons	2179..2439, 2181..2294		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544

Name	OJ991106_41.0419.C35.o2.tc	Method	TBLASTX:Cress
Start	2203	End	3460
GI	none	Score	77
Exons	2203..2328, 2389..2445, 2512..2562, 2572..2649, 2574..2690, 2853..3053, 3147..3305, 3380..3460		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	2575	End	4135
GI	none	Score	74
Exons	2575..2649, 2850..3047, 3138..3239, 3380..4033, 3523..4032, 3644..4033, 4064..4135		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	3087	End	3823
GI	none	Score	141
Exons	3087..3305, 3087..3290, 3379..3432, 3380..3823, 3523..3822		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	3512	End	4138
GI	none	Score	748
Exons	3512..4138, 3517..4137		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o2.ts	Method	TBLASTX:Soybean
Start	3824	End	4030
GI	none	Score	263
Exons	3824..4030, 3824..3994, 3844..4029		

Seq. No.	51845	Seq. ID	OJ991106_41.0419.C35
Gene No.	109705	Strand	+
Start	4270	End	4544
Name	OJ991106_41.0419.C35.o2.gp	Method	AAT/GAP
Start	4270	End	4544
GI	5038707	Score	529
Exons	4270..4544		

Seq. No.	51846	Seq. ID	OJ991226_35.0419.C1
Gene No.	109706	Strand	-
Start	203	End	3189
Name	OJ991226_35.0419.C1.o1.gp	Method	AAT/GAP
Start	203	End	3189
GI	none	Score	951
Exons	203..271, 1148..1278, 2124..2335, 3061..3189		

Seq. No.	51846	Seq. ID	OJ991226_35.0419.C1
Gene No.	109706	Strand	-

Start	203	End	3189
Name	OJ991226_35.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2124	End	2373
GI	none	Score	70
Exons	2124..2171, 2125..2187, 2173..2244, 2173..2256, 2178..2294, 2238..2333, 2239..2373, 2246..2335		

Seq. No.	51847	Seq. ID	OJ991226_35.0419.C2
Gene No.	109707	Strand	+
Start	1228	End	3520
Name	OJ991226_35.0419.C2.o1.np	Method	AAT/NAP
Start	1228	End	3520
GI	6539572	Score	72
Exons	1228..1581, 2111..2198, 3208..3520		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	51847	Seq. ID	OJ991226_35.0419.C2
Gene No.	109708	Strand	-
Start	3341	End	3652
Name	OJ991226_35.0419.C2.o2.gs	Method	GENSCAN
Start	3341	End	3652
GI	none	Score	.95
Exons	3341..3652		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109709	Strand	-
Start	628	End	6035
Name	OJ991226_35.0419.C3.o1.np	Method	AAT/NAP
Start	628	End	1751
GI	7510076	Score	52
Exons	628..696, 1114..1175, 1575..1751		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109709	Strand	-
Start	628	End	6035
Name	OJ991226_35.0419.C3.o1.gs	Method	GENSCAN
Start	915	End	6035
GI	none	Score	.73
Exons	915..920, 2888..3089, 5585..5777, 5813..6035		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	6390	End	6776
GI	none	Score	221
Exons	6390..6776, 6391..6699, 6429..6776		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	6393	End	7632
GI	none	Score	312
Exons	6393..6830, 6394..6714, 6456..6821, 6781..6822, 6893..6964, 6934..7092, 6941..7051, 7123..7185, 7189..7281, 7367..7603,		

7385..7543, 7393..7581, 7580..7630, 7585..7632

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o2.np	Method	AAT/NAP
Start	6393	End	7632
GI	7430703	Score	923
Exons	6393..6821, 6898..7282, 7391..7632		
GI Descrip.	cytochrome P450 - Madagascar periwinkle gi\|404688\|gb\|AAA17732.1\| (L19074) cytochrome P450 [Catharanthus roseus]		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o2.gs	Method	GENSCAN
Start	6396	End	7632
GI	none	Score	.8
Exons	6396..6821, 6898..7268, 7398..7632		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	6399	End	7599
GI	none	Score	179
Exons	6399..6830, 6421..6714, 6735..6818, 6781..6831, 6887..7051, 6892..7128, 6912..7073, 6919..7092, 7105..7284, 7109..7285, 7367..7597, 7390..7599		

Seq. No.	51848	Seq. ID	OJ991226_35.0419.C3
Gene No.	109710	Strand	-
Start	6396	End	7632
Name	OJ991226_35.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	6777	End	7257
GI	none	Score	49
Exons	6777..6830, 6778..6819, 6792..6821, 6887..7051, 6895..7092, 6901..7092, 6968..7093, 7102..7257, 7139..7249		

Seq. No.	51849	Seq. ID	OJ991226_35.0419.C4
Gene No.	109711	Strand	-
Start	1	End	701
Name	OJ991226_35.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	683
GI	2760837	Score	189
Exons	1..298, 391..683		
GI Descrip.	(AC003105) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51849	Seq. ID	OJ991226_35.0419.C4
Gene No.	109711	Strand	-
Start	1	End	701
Name	OJ991226_35.0419.C4.o2.np	Method	AAT/NAP
Start	1	End	666
GI	5734759	Score	194
Exons	1..302, 395..666		
GI Descrip.	(AC007651) Similar to Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51849	Seq. ID	OJ991226_35.0419.C4
Gene No.	109711	Strand	-
Start	1	End	701
Name	OJ991226_35.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	69	End	303
GI	none	Score	106
Exons	69..161, 80..175, 193..303		

Seq. No.	51849	Seq. ID	OJ991226_35.0419.C4
Gene No.	109711	Strand	-
Start	1	End	701
Name	OJ991226_35.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	69	End	581
GI	none	Score	69
Exons	69..173, 80..169, 226..285, 393..581		

Seq. No.	51849	Seq. ID	OJ991226_35.0419.C4
Gene No.	109711	Strand	-
Start	1	End	701
Name	OJ991226_35.0419.C4.o1.gs	Method	GENSCAN
Start	154	End	701
GI	none	Score	.72
Exons	154..362, 395..701		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109712	Strand	+
Start	5484	End	5768
Name	OJ991226_35.0419.C5.o2.gp	Method	AAT/GAP
Start	5484	End	5768
GI	LIB3475-004-P1-K2-A5	Score	380
Exons	5484..5545, 5586..5768		
GI Descrip.	'5777612/emb\|AJ245900.1\|OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	368	End	1995
GI	none	Score	48
Exons	368..415, 388..801, 437..802, 929..1078, 931..1068, 1186..1278, 1416..1694, 1417..1695, 1719..1970, 1756..1995, 1764..1985		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.np	Method	AAT/NAP
Start	373	End	3395
GI	461812	Score	1032
Exons	373..801, 888..1279, 1426..1673, 1764..1985, 3348..3395		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	379	End	753
GI	none	Score	197
Exons	379..753, 380..733		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	379	End	1602
GI	none	Score	237
Exons	379..801, 380..802, 902..1075, 910..1110, 1168..1281, 1178..1285, 1416..1601, 1417..1602		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.gs	Method	GENSCAN
Start	397	End	795
GI	none	Score	.93
Exons	397..795		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o2.tc	Method	TBLASTX:Cress
Start	766	End	1078
GI	none	Score	140
Exons	766..801, 893..1078, 910..1059		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o2.gs	Method	GENSCAN
Start	862	End	6042
GI	none	Score	.68
Exons	862..1279, 1426..1673, 1764..1984, 3891..4172, 4618..4694, 5807..5826, 5888..6042		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	1614	End	4086
GI	none	Score	42
Exons	1614..1670, 1618..1671, 1756..1860, 1761..1904, 1900..1986, 1905..1985, 3889..3945, 3952..4086		

Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	3889	End	4104
GI	none	Score	75

Exons	3889..3972, 3890..3961, 3892..3972, 4006..4104		
Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	3889	End	4171
GI	none	Score	111
Exons	3889..4098, 3890..4171		
Seq. No.	51850	Seq. ID	OJ991226_35.0419.C5
Gene No.	109713	Strand	-
Start	373	End	6374
Name	OJ991226_35.0419.C5.o2.np	Method	AAT/NAP
Start	5477	End	6374
GI	4539658	Score	57
Exons	5477..5550, 5586..5666, 6306..6374		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		
Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109714	Strand	+
Start	240	End	378
Name	OJ991226_35.0419.C6.o1.gs	Method	GENSCAN
Start	240	End	378
GI	none	Score	.5
Exons	240..378		
Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109715	Strand	+
Start	721	End	3945
Name	OJ991226_35.0419.C6.o1.np	Method	AAT/NAP
Start	721	End	3942
GI	6907089	Score	4344
Exons	721..1981, 2085..3942		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109715	Strand	+
Start	721	End	3945
Name	OJ991226_35.0419.C6.o2.gs	Method	GENSCAN
Start	721	End	3945
GI	none	Score	.81
Exons	721..883, 916..1785, 1813..1981, 2085..3483, 3541..3945		
Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109716	Strand	-
Start	4569	End	5207
Name	OJ991226_35.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	1754	End	5189
GI	none	Score	159
Exons	1754..1837, 4581..4706, 4737..4793, 4893..5189, 4900..5157		
Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109716	Strand	-
Start	4569	End	5207
Name	OJ991226_35.0419.C6.o3.gs	Method	GENSCAN

Start	4569	End	4904
GI	none	Score	.94
Exons	4569..4904		

Seq. No.	51851	Seq. ID	OJ991226_35.0419.C6
Gene No.	109716	Strand	-
Start	4569	End	5207
Name	OJ991226_35.0419.C6.o2.np	Method	AAT/NAP
Start	4572	End	5207
GI	7228457	Score	1029
Exons	4572..5207		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109717	Strand	+
Start	11457	End	11771
Name	OJ991226_35.0419.C7.o3.gs	Method	GENSCAN
Start	11457	End	11771
GI	none	Score	.91
Exons	11457..11771		

Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109718	Strand	-
Start	1	End	6709
Name	OJ991226_35.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	4754
GI	7228457	Score	6748
Exons	1..348, 415..1374, 1497..2330, 2394..4326, 4388..4754		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109718	Strand	-
Start	1	End	6709
Name	OJ991226_35.0419.C7.o1.gs	Method	GENSCAN
Start	11	End	6709
GI	none	Score	.46
Exons	11..1582, 1603..2330, 2394..3186, 3241..4772, 4826..4930, 5382..5424, 5505..5613, 5729..5793, 5851..5918, 6638..6709		

Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o6.tw	Method	TBLASTX:Wheat
Start	121	End	433
GI	none	Score	67
Exons	121..381, 257..433		

Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	181	End	747
GI	5666795	Score	68

Exons	181..381, 436..573, 649..747		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	436	End	894
GI	none	Score	88
Exons	436..585, 437..574, 619..870, 620..850, 640..894		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1303	End	1673
GI	none	Score	83
Exons	1303..1533, 1530..1673, 1531..1656		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	1333	End	1752
GI	none	Score	98
Exons	1333..1539, 1358..1513, 1521..1751, 1522..1752		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1426	End	1809
GI	none	Score	201
Exons	1426..1536, 1524..1808, 1525..1809		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1836	End	2192
GI	none	Score	69
Exons	1836..1952, 1836..2192, 1846..2157		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	1860	End	2322
GI	none	Score	229
Exons	1860..2321, 1866..2321, 1867..2322		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	2487	End	2973
GI	none	Score	149

Exons	2487..2972, 2518..2778, 2800..2973		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o5.tw	Method	TBLASTX:Wheat
Start	3708	End	4097
GI	none	Score	99
Exons	3708..3965, 3742..3981, 3948..4046, 3949..4029, 4053..4097		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	3810	End	4058
GI	none	Score	108
Exons	3810..4058, 3811..4056		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o2.np	Method	AAT/NAP
Start	7779	End	11869
GI	5777623	Score	1268
Exons	7779..7805, 9364..9592, 10379..10901, 11081..11225, 11474..11652, 11793..11869		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o1.gp	Method	AAT/GAP
Start	8217	End	8732
GI	38782_1.R1084	Score	785
Exons	8217..8732		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	51852	Seq. ID	OJ991226_35.0419.C7
Gene No.	109719	Strand	-
Start	7779	End	11869
Name	OJ991226_35.0419.C7.o2.gs	Method	GENSCAN
Start	8524	End	10841
GI	none	Score	.84
Exons	8524..8597, 10219..10371, 10406..10841		
Seq. No.	51853	Seq. ID	OJ991226_35.0419.C9
Gene No.	109720	Strand	+
Start	565	End	661
Name	OJ991226_35.0419.C9.o1.gs	Method	GENSCAN
Start	565	End	661
GI	none	Score	.46
Exons	565..590, 647..661		
Seq. No.	51853	Seq. ID	OJ991226_35.0419.C9
Gene No.	109721	Strand	-
Start	1229	End	2319

Name	OJ991226_35.0419.C9.o2.gs	Method	GENSCAN
Start	1229	End	2319
GI	none	Score	.72
Exons	1229..1488, 1675..1727, 2279..2319		

Seq. No.	51853	Seq. ID	OJ991226_35.0419.C9
Gene No.	109722	Strand	-
Start	2916	End	5742
Name	OJ991226_35.0419.C9.o3.gs	Method	GENSCAN
Start	2916	End	5742
GI	none	Score	.55
Exons	2916..2998, 3241..3408, 3684..3820, 4149..4424, 5113..5215, 5631..5742		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109723	Strand	+
Start	5903	End	6236
Name	OJ991226_35.0419.C10.o2.gp	Method	AAT/GAP
Start	5903	End	6236
GI	LIB3431-002-P1-N1-D11	Score	480
Exons	5903..6236		
GI Descrip.	'4176420/dbj\|BAA37167\| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109724	Strand	-
Start	350	End	4873
Name	OJ991226_35.0419.C10.o1.np	Method	AAT/NAP
Start	347	End	2271
GI	461812	Score	1160
Exons	347..775, 891..1275, 1415..1659, 1753..2271		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109724	Strand	-
Start	350	End	4873
Name	OJ991226_35.0419.C10.o1.gs	Method	GENSCAN
Start	350	End	4873
GI	none	Score	.59
Exons	350..775, 891..1275, 1415..1659, 1753..2303, 3656..3937, 4810..4873		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109724	Strand	-
Start	350	End	4873
Name	OJ991226_35.0419.C10.o1.gp	Method	AAT/GAP
Start	424	End	927
GI	97722_1.R1084	Score	746
Exons	424..775, 891..927		
GI Descrip.	'5734759/gb\|AAD50024.1\|AC007651_19 8.0e-36 (AC007651) Similar to Cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	299	End	6433
GI	none	Score	400
Exons	299..772, 338..775, 348..776, 885..929, 910..930, 925..1086, 927..1112, 928..1089, 1119..1148, 1180..1278, 1182..1274, 1412..1630, 1414..1605, 1486..1653, 1609..1656, 1610..1657, 1753..1902, 1753..1959, 1754..1960, 1972..2019, 1973..2026, 6003..6428, 6003..6428, 6017..6433		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	347	End	6397
GI	none	Score	202
Exons	347..721, 375..707, 401..724, 6011..6397, 6042..6374, 6080..6376		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	353	End	6434
GI	none	Score	286
Exons	353..775, 375..776, 885..1088, 910..1089, 1101..1277, 1417..1623, 1421..1612, 6020..6433, 6042..6434		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o3.tc	Method	TBLASTX:Cress
Start	737	End	1250
GI	none	Score	37
Exons	737..775, 738..773, 885..1088, 888..1085, 910..1089, 1074..1250		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1071	End	1512
GI	none	Score	144
Exons	1071..1274, 1083..1274, 1084..1278, 1094..1288, 1412..1498, 1414..1512		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	1417	End	2136
GI	none	Score	98
Exons	1417..1548, 1421..1546, 1564..1581, 1624..1656, 1753..1950, 1754..1966, 1936..1962, 2056..2136		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-

Start	6014	End	6435
Name	OJ991226_35.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	1624	End	2136
GI	none	Score	112
Exons	1624..1656, 1753..1833, 1763..1903, 1889..1966, 1894..1962, 1972..2055, 2056..2136		

Seq. No.	51854	Seq. ID	OJ991226_35.0419.C10
Gene No.	109725	Strand	-
Start	6014	End	6435
Name	OJ991226_35.0419.C10.o2.np	Method	AAT/NAP
Start	6014	End	6435
GI	461812	Score	365
Exons	6014..6435		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109726	Strand	+
Start	32	End	2857
Name	OJ991226_35.0419.C11.o1.gs	Method	GENSCAN
Start	32	End	2857
GI	none	Score	.47
Exons	32..178, 335..487, 2729..2857		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109727	Strand	+
Start	4494	End	6029
Name	OJ991226_35.0419.C11.o3.gs	Method	GENSCAN
Start	4494	End	6029
GI	none	Score	.47
Exons	4494..5092, 5969..6029		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109728	Strand	+
Start	11872	End	12151
Name	OJ991226_35.0419.C11.o5.gs	Method	GENSCAN
Start	11872	End	12151
GI	none	Score	.83
Exons	11872..11938, 12039..12151		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109729	Strand	+
Start	13312	End	15276
Name	OJ991226_35.0419.C11.o3.gp	Method	AAT/GAP
Start	13189	End	13601
GI	none	Score	742
Exons	13189..13601		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109729	Strand	+
Start	13312	End	15276
Name	OJ991226_35.0419.C11.o4.np	Method	AAT/NAP

Start	13276	End	15276
GI	461812	Score	1143
Exons	13276..13791, 13909..14153, 14331..14715, 14848..15276		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109729	Strand	+
Start	13312	End	15276
Name	OJ991226_35.0419.C11.o6.gs	Method	GENSCAN
Start	13312	End	15257
GI	none	Score	.7
Exons	13312..13791, 13909..14153, 14331..14714, 14999..15257		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109729	Strand	+
Start	13312	End	15276
Name	OJ991226_35.0419.C11.o4.gp	Method	AAT/GAP
Start	14114	End	14683
GI	LIB3434-060-P1-K1-A12	Score	715
Exons	14114..14153, 14331..14683		
GI Descrip.	'404690 3.0e-34 (L19075) cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109730	Strand	+
Start	15782	End	16748
Name	OJ991226_35.0419.C11.o7.gs	Method	GENSCAN
Start	15782	End	16748
GI	none	Score	.92
Exons	15782..15901, 16506..16748		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109731	Strand	+
Start	17187	End	18668
Name	OJ991226_35.0419.C11.o8.gs	Method	GENSCAN
Start	17187	End	18668
GI	none	Score	.66
Exons	17187..17313, 18613..18668		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109732	Strand	+
Start	21866	End	22507
Name	OJ991226_35.0419.C11.o6.gp	Method	AAT/GAP
Start	21866	End	22507
GI	8043_1.R1084	Score	806
Exons	21866..22292, 22484..22507		
GI Descrip.	'461812/sp\|Q05047\|CP72_CATRO 4.0e-97 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109732	Strand	+

Start	21866	End	22507
Name	OJ991226_35.0419.C11.o5.np	Method	AAT/NAP
Start	21996	End	22265
GI	2760837	Score	91
Exons	21996..22265		
GI Descrip.	(AC003105) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109733	Strand	-
Start	1	End	530
Name	OJ991226_35.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	526
GI	2760837	Score	241
Exons	1..526		
GI Descrip.	(AC003105) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109733	Strand	-
Start	1	End	530
Name	OJ991226_35.0419.C11.o2.np	Method	AAT/NAP
Start	1	End	530
GI	7430703	Score	279
Exons	1..530		
GI Descrip.	cytochrome P450 - Madagascar periwinkle gi\|404688\|gb\|AAA17732.1\| (L19074) cytochrome P450 [Catharanthus roseus]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109734	Strand	-
Start	2961	End	4991
Name	OJ991226_35.0419.C11.o1.gp	Method	AAT/GAP
Start	2961	End	3422
GI	3767855	Score	869
Exons	2961..3422		
GI Descrip.	5734759/gb\|AAD50024.1\|AC007651_19 1.0e-26 (AC007651) Similar to Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109734	Strand	-
Start	2961	End	4991
Name	OJ991226_35.0419.C11.o3.np	Method	AAT/NAP
Start	3088	End	4991
GI	461812	Score	1213
Exons	3088..3516, 3624..4008, 4129..4373, 4479..4991		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109734	Strand	-
Start	2961	End	4991
Name	OJ991226_35.0419.C11.o2.gs	Method	GENSCAN
Start	3224	End	4271
GI	none	Score	.73
Exons	3224..3245, 3326..3516, 3624..4008, 4129..4271		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109734	Strand	-
Start	2961	End	4991
Name	OJ991226_35.0419.C11.o2.gp	Method	AAT/GAP
Start	3768	End	4306
GI	428533	Score	756
Exons	3768..4008, 4129..4306		
GI Descrip.	404690 6.0e-28 (L19075) cytochrome P450 [Catharanthus roseus]		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109735	Strand	-
Start	7977	End	10346
Name	OJ991226_35.0419.C11.o4.gs	Method	GENSCAN
Start	7977	End	10346
GI	none	Score	.9
Exons	7977..8892, 9013..9260, 9367..9695, 10088..10346		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	17	End	15290
GI	none	Score	165
Exons	17..244, 17..283, 18..287, 3054..3077, 3089..3559, 3089..3514, 3091..3516, 3612..3662, 3660..3845, 3667..3822, 3848..3880, 3852..3881, 3915..4004, 3964..4008, 4087..4344, 4127..4318, 4128..4319, 4318..4374, 4323..4385, 4324..4371, 4456..4551, 4479..4712, 4479..4745, 4480..4749, 7963..8172, 7963..8169, 7989..8171, 8184..8405, 8185..8415, 8511..8555, 8553..8720, 8553..8741, 8799..8891, 9004..9258, 9010..9261, 9012..9263, 9059..9262, 9078..9266, 9365..9385, 9367..9597, 9367..9597, 9368..9610, 13521..13799, 13525..13791, 13903..13965, 13911..13964, 13915..14154, 13959..14156, 13960..14154, 14334..14426, 14335..14424, 14490..14669, 14494..14679, 14841..15290, 14848..15276		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	17	End	22226
GI	none	Score	123
Exons	17..157, 18..272, 203..250, 299..394, 472..495, 3972..4010, 4131..4265, 4183..4260, 4338..4385, 4479..4619, 4480..4734, 4665..4712, 4761..4925, 8856..8894, 9015..9146, 9019..9144, 9225..9263, 9367..9507, 9368..9469, 10116..10331, 13279..13509, 13570..13791, 13737..13790, 13912..13944, 14020..14151, 14022..14147, 22077..22226		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	17	End	22291
GI	none	Score	97
Exons	17..157, 27..110, 153..326, 158..394, 4338..4385, 4339..4386,		

4479..4619, 4489..4557, 4615..4788, 4620..4919, 9207..9263,
9367..9507, 9377..9460, 9508..9609, 9518..9604, 10083..10142,
10152..10322, 13324..13650, 13518..13655, 13651..13791,
13734..13781, 13903..13944, 22080..22289, 22097..22291

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	212	End	22291
GI	none	Score	105

Exons 212..340, 213..311, 320..397, 4674..4802, 4675..4773,
4782..4925, 10086..10145, 10089..10166, 10167..10382,
10168..10272, 13321..13488, 13428..13490, 13468..13596,
13489..13593, 13509..13595, 22080..22205, 22094..22204,
22188..22289, 22197..22286, 22214..22291

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	290	End	22291
GI	none	Score	43

Exons 290..397, 4752..4970, 10084..10140, 10086..10142, 10149..10361,
10150..10272, 13300..13518, 22077..22289, 22094..22291

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	3085	End	15282
GI	none	Score	172

Exons 3085..3471, 3116..3448, 3154..3450, 7972..8166, 7972..8154,
7980..8180, 8166..8360, 8188..8337, 14848..14928, 14905..15282,
14914..15150, 14916..15251

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	3094	End	15329
GI	none	Score	261

Exons 3094..3516, 3116..3517, 3612..3827, 3616..3828, 3825..4025,
3826..3930, 4126..4251, 4131..4337, 4134..4328, 4135..4332,
7980..8171, 8002..8169, 8179..8418, 8187..8417, 8512..8712,
8520..8720, 8706..8894, 9015..9203, 9019..9192, 13945..14151,
13953..14147, 14326..14508, 14328..14504, 14517..14660,
14518..14712, 14521..14688, 14847..15248, 14848..15270,
15285..15329

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o3.tc	Method	TBLASTX:Cress
Start	3627	End	14715
GI	none	Score	142

Exons 3627..3824, 3637..3825, 3807..3965, 3835..3963, 8517..8732,

8518..8712, 8739..8852, 14377..14511, 14403..14504,
14511..14645, 14511..14657, 14512..14715, 14521..14712

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	3804	End	14535
GI	none	Score	180
Exons	3804..4001, 3820..4005, 3823..4008, 3830..4021, 4114..4212, 4127..4207, 4128..4226, 8739..8891, 8739..8891, 9004..9096, 9012..9110, 14056..14154, 14070..14156, 14075..14164, 14331..14483, 14334..14522, 14338..14535		

Seq. No.	51855	Seq. ID	OJ991226_35.0419.C11
Gene No.	109736	Strand	-
Start	14967	End	22291
Name	OJ991226_35.0419.C11.o5.gp	Method	AAT/GAP
Start	14967	End	15412
GI	uC-osroM202030e03a1	Score	892
Exons	14967..15412		
GI Descrip.	'2760837/gb\|AAB95305.1\| 4.0e-29 (AC003105) putative cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109737	Strand	+
Start	1	End	4487
Name	OJ991226_35.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	2698
GI	461812	Score	1083
Exons	1..26, 269..495, 590..834, 1483..1861, 2270..2698		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109737	Strand	+
Start	1	End	4487
Name	OJ991226_35.0419.C12.o1.gs	Method	GENSCAN
Start	214	End	4487
GI	none	Score	.69
Exons	214..495, 590..834, 1483..1861, 2270..2666, 2777..2855, 3052..3212, 3784..3872, 4062..4215, 4390..4487		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109737	Strand	+
Start	1	End	4487
Name	OJ991226_35.0419.C12.o1.gp	Method	AAT/GAP
Start	275	End	1819
GI	8043_1.R1084	Score	1541
Exons	275..495, 590..834, 1483..1819		
GI Descrip.	'461812/sp\|Q05047\|CP72_CATRO 4.0e-97 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus]		

>gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]'

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109737	Strand	+
Start	1	End	4487
Name	OJ991226_35.0419.C12.o2.gp	Method	AAT/GAP
Start	1824	End	2114
GI	none	Score	452
Exons	1824..2114		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109738	Strand	-
Start	2270	End	2998
Name	OJ991226_35.0419.C12.o3.gp	Method	AAT/GAP
Start	2270	End	2998
GI	2568_1.R1084	Score	1318
Exons	2270..2998		
GI Descrip.	'461812/sp\|Q05047\|CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	267	End	7218
GI	none	Score	96
Exons	267..347, 274..354, 355..528, 399..548, 402..503, 6656..6715, 6976..7107, 6984..7103, 7137..7217, 7144..7218		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	274	End	7218
GI	none	Score	252
Exons	274..495, 291..368, 405..488, 575..640, 647..841, 658..828, 1478..1576, 1639..1782, 1640..1822, 1693..1821, 1829..1870, 2269..2691, 2270..2695, 4890..5090, 4891..5091, 4999..5091, 5117..5323, 5118..5333, 5395..5457, 5396..5455, 5455..5628, 5462..5614, 5478..5654, 5713..5802, 6458..6742, 6531..6710, 6972..7094, 6976..7095, 7075..7218, 7104..7217		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	274	End	7218
GI	none	Score	163
Exons	274..495, 393..554, 575..625, 701..832, 703..834, 6458..6595, 6674..6715, 6957..7094, 7000..7089, 7180..7218, 7182..7217		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o1.tw	Method	TBLASTX:Wheat

Start	400	End	7091
GI	none	Score	80
Exons	400..498, 575..862, 6515..6634, 6969..7091		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	626	End	6643
GI	none	Score	211
Exons	626..841, 631..837, 1478..1645, 1552..1641, 1625..1870, 1664..1861, 1693..1881, 2269..2670, 2270..2692, 2405..2698, 4896..5096, 4903..5097, 5117..5323, 5118..5333, 5395..5616, 5396..5614, 5611..5802, 5680..5817, 6467..6643, 6506..6619, 6534..6641		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o3.tc	Method	TBLASTX:Cress
Start	1526	End	5763
GI	none	Score	113
Exons	1526..1651, 1549..1653, 1657..1803, 1664..1858, 1664..1804, 1693..1848, 5422..5616, 5432..5614, 5653..5763, 5666..5740		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	1667	End	5724
GI	none	Score	182
Exons	1667..1819, 1693..1821, 5461..5634, 5462..5605, 5659..5724		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	2255	End	5326
GI	none	Score	70
Exons	2255..2353, 2255..2347, 2347..2517, 2357..2518, 5120..5236, 5240..5326		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	2320	End	5272
GI	none	Score	447
Exons	2320..2670, 2321..2695, 4888..5082, 4890..5087, 5117..5272, 5121..5255		

Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	3798	End	4167
GI	none	Score	69

Exons	3798..3887, 3936..4166, 3976..4167, 3978..4130, 4000..4167		
Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o4.tw	Method	TBLASTX:Wheat
Start	3975	End	4167
GI	none	Score	58
Exons	3975..4163, 4021..4167		
Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o2.gs	Method	GENSCAN
Start	4618	End	7187
GI	none	Score	.62
Exons	4618..4797, 4914..5070, 5133..5323, 5419..5806, 6462..6709, 6993..7187		
Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o4.gp	Method	AAT/GAP
Start	4767	End	5492
GI	5039082	Score	1162
Exons	4767..5323, 5419..5492		
GI Descrip.	461812/sp\|Q05047\|CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484 (L10081) Cytochrome P-450 protein [Catharanthus roseus] >gi_445604_prf__1909351A cytochrome P450 [Catharanthus roseus]		
Seq. No.	51856	Seq. ID	OJ991226_35.0419.C12
Gene No.	109739	Strand	-
Start	4618	End	7222
Name	OJ991226_35.0419.C12.o3.np	Method	AAT/NAP
Start	4890	End	7222
GI	461812	Score	1032
Exons	4890..5323, 5419..5801, 6457..6709, 6993..7222		
GI Descrip.	CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) gi\|7430704\|pir\|\|T09944 probable cytochrome P450 protein - Madagascar periwinkle gi\|167484\|gb\|AAA33106.1\| (L10081) Cytochrome P-450 protein [Catharanthus roseus] gi\|445604\|prf\|\|1909351A cytochrome P450 [Catharanthus roseus]		
Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109740	Strand	+
Start	1	End	13740
Name	OJ991226_35.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	13740
GI	7486538	Score	69
Exons	1..33, 9988..10158, 13683..13740		
GI Descrip.	hypothetical protein F6N15.18 - Arabidopsis thaliana gi\|3193315\|gb\|AAC19297.1\| (AF069299) contains similarity to transcriptional activator Ra [Arabidopsis thaliana] gi\|7267099\|emb\|CAB80770.1\| (AL161471) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109740	Strand	+
Start	1	End	13740
Name	OJ991226_35.0419.C13.o1.gp	Method	AAT/GAP
Start	7320	End	9422
GI	none	Score	1421
Exons	7320..7549, 8089..8209, 8300..8489, 9159..9422		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109740	Strand	+
Start	1	End	13740
Name	OJ991226_35.0419.C13.o2.gp	Method	AAT/GAP
Start	9514	End	10747
GI	22170_1.R1084	Score	2374
Exons	9514..10747		
GI Descrip.	'404690 6.0e-28 (L19075) cytochrome P450 [Catharanthus roseus]'		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109740	Strand	+
Start	1	End	13740
Name	OJ991226_35.0419.C13.o5.gs	Method	GENSCAN
Start	11532	End	12534
GI	none	Score	.54
Exons	11532..11580, 12422..12534		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109741	Strand	-
Start	2693	End	4144
Name	OJ991226_35.0419.C13.o2.gs	Method	GENSCAN
Start	2693	End	4144
GI	none	Score	.65
Exons	2693..2795, 3496..3678, 3749..3827, 4003..4144		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109742	Strand	-
Start	7237	End	7563
Name	OJ991226_35.0419.C13.o3.gs	Method	GENSCAN
Start	7237	End	7563
GI	none	Score	.4
Exons	7237..7563		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109743	Strand	-
Start	11771	End	15791
Name	OJ991226_35.0419.C13.o2.np	Method	AAT/NAP
Start	11771	End	13698
GI	5668813	Score	360
Exons	11771..11789, 12888..13698		
GI Descrip.	(AC007519) Similar to gb\|X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF\|00135 Carboxylesterase family. ESTs gb\|Z25688 and gb\|F14025 come from this gene. [Arabidopsis thaliana]		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109743	Strand	-
Start	11771	End	15791

Name	OJ991226_35.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	12905	End	13492
GI	none	Score	91
Exons	12905..13075, 12906..13076, 13092..13289, 13293..13352, 13370..13492		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109743	Strand	-
Start	11771	End	15791
Name	OJ991226_35.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	12917	End	13286
GI	none	Score	101
Exons	12917..13075, 12957..13076, 13116..13286		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109743	Strand	-
Start	11771	End	15791
Name	OJ991226_35.0419.C13.o6.gs	Method	GENSCAN
Start	13032	End	15791
GI	none	Score	.42
Exons	13032..13611, 13748..13926, 14067..14198, 14849..15118, 15278..15412, 15684..15791		

Seq. No.	51857	Seq. ID	OJ991226_35.0419.C13
Gene No.	109743	Strand	-
Start	11771	End	15791
Name	OJ991226_35.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	13101	End	13508
GI	none	Score	36
Exons	13101..13160, 13197..13286, 13293..13343, 13368..13508, 13370..13507		

Seq. No.	51858	Seq. ID	OJ991226_35.0419.C14
Gene No.	109744	Strand	+
Start	114	End	522
Name	OJ991226_35.0419.C14.o1.gs	Method	GENSCAN
Start	114	End	522
GI	none	Score	.89
Exons	114..175, 250..522		

Seq. No.	51858	Seq. ID	OJ991226_35.0419.C14
Gene No.	109745	Strand	+
Start	1768	End	2175
Name	OJ991226_35.0419.C14.o1.gp	Method	AAT/GAP
Start	1768	End	2175
GI	1631893	Score	750
Exons	1768..2175		

Seq. No.	51859	Seq. ID	OJ991226_35.0419.C15
Gene No.	109746	Strand	-
Start	1	End	1016
Name	OJ991226_35.0419.C15.o1.gp	Method	AAT/GAP
Start	1	End	338
GI	2428243	Score	657
Exons	1..338		

Seq. No.	51859	Seq. ID	OJ991226_35.0419.C15

Gene No.	109746	Strand	-
Start	1	End	1016
Name	OJ991226_35.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1016
GI	6693023	Score	260
Exons	1..339, 422..519, 610..699, 994..1016		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		

Seq. No.	51859	Seq. ID	OJ991226_35.0419.C15
Gene No.	109746	Strand	-
Start	1	End	1016
Name	OJ991226_35.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	3	End	197
GI	none	Score	200
Exons	3..197, 6..197		

Seq. No.	51859	Seq. ID	OJ991226_35.0419.C15
Gene No.	109746	Strand	-
Start	1	End	1016
Name	OJ991226_35.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	15	End	537
GI	none	Score	59
Exons	15..98, 15..98, 16..99, 102..221, 213..341, 265..342, 265..357, 419..520, 427..537, 459..521		

Seq. No.	51859	Seq. ID	OJ991226_35.0419.C15
Gene No.	109746	Strand	-
Start	1	End	1016
Name	OJ991226_35.0419.C15.o1.gs	Method	GENSCAN
Start	50	End	930
GI	none	Score	.91
Exons	50..339, 422..519, 916..930		

Seq. No.	51860	Seq. ID	OJ991226_35.0419.C18
Gene No.	109747	Strand	+
Start	230	End	575
Name	OJ991226_35.0419.C18.o1.gs	Method	GENSCAN
Start	230	End	575
GI	none	Score	.92
Exons	230..329, 456..575		

Seq. No.	51860	Seq. ID	OJ991226_35.0419.C18
Gene No.	109748	Strand	-
Start	876	End	1195
Name	OJ991226_35.0419.C18.o1.gp	Method	AAT/GAP
Start	876	End	1195
GI	none	Score	544
Exons	876..1195		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109749	Strand	+
Start	63	End	223
Name	OJ991226_35.0419.C23.o1.gs	Method	GENSCAN
Start	63	End	223
GI	none	Score	.94
Exons	63..223		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109750	Strand	-
Start	1	End	1001
Name	OJ991226_35.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1001
GI	7436361	Score	605
Exons	1..176, 541..712, 925..1001		
GI Descrip.	Ca2+-transporting ATPase (EC 3.6.1.38) ACA2 - Arabidopsis thaliana gi\|3335060\|gb\|AAC26997.1\| (AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi\|4468989\|emb\|CAB38303.1\| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana] gi\|7270746\|emb\|CAB80429.1\| (AL161591) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109750	Strand	-
Start	1	End	1001
Name	OJ991226_35.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	8	End	1001
GI	none	Score	266
Exons	8..199, 11..214, 13..240, 533..715, 534..713, 580..714, 908..970, 922..969, 924..977, 969..1001, 970..999		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109750	Strand	-
Start	1	End	1001
Name	OJ991226_35.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	11	End	1001
GI	none	Score	210
Exons	11..214, 13..240, 533..715, 534..713, 551..730, 872..970, 905..958, 922..972, 922..969, 969..1001, 973..999		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109750	Strand	-
Start	1	End	1001
Name	OJ991226_35.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	11	End	1001
GI	none	Score	226
Exons	11..214, 11..211, 13..240, 533..715, 534..713, 539..730, 922..972, 922..969, 969..1001, 970..999		

Seq. No.	51861	Seq. ID	OJ991226_35.0419.C23
Gene No.	109750	Strand	-
Start	1	End	1001
Name	OJ991226_35.0419.C23.o2.gs	Method	GENSCAN
Start	524	End	712
GI	none	Score	.57
Exons	524..712		

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	724
GI	7436361	Score	999
Exons	1..724		

GI Descrip.	Ca2+-transporting ATPase (EC 3.6.1.38) ACA2 - Arabidopsis thaliana gi\|3335060\|gb\|AAC26997.1\| (AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi\|4468989\|emb\|CAB38303.1\| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana] gi\|7270746\|emb\|CAB80429.1\| (AL161591) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	2	End	724
GI	none	Score	891
Exons	2..637, 2..241, 4..321, 361..639, 644..724, 658..723		

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	2	End	720
GI	none	Score	996
Exons	2..709, 2..238, 4..720		

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	47	End	724
GI	none	Score	908
Exons	47..724, 52..321, 355..723		

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.gs	Method	GENSCAN
Start	56	End	705
GI	none	Score	.72
Exons	56..705		

Seq. No.	51862	Seq. ID	OJ991226_35.0419.C28
Gene No.	109751	Strand	+
Start	1	End	724
Name	OJ991226_35.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	481	End	724
GI	none	Score	295
Exons	481..723, 482..724		

Seq. No.	51863	Seq. ID	OJ991226_35.0419.C30
Gene No.	109752	Strand	+
Start	1217	End	1548
Name	OJ991226_35.0419.C30.o1.gp	Method	AAT/GAP
Start	1217	End	1548
GI	5038970	Score	648
Exons	1217..1548		
GI Descrip.	4468813/emb\|CAB38214\| 2.0e-10 (AL035601) putative protein [Arabidopsis thaliana]		

Seq. No.	51863	Seq. ID	OJ991226_35.0419.C30
Gene No.	109752	Strand	+
Start	1217	End	1548
Name	OJ991226_35.0419.C30.o1.np	Method	AAT/NAP
Start	1372	End	1548
GI	6223644	Score	213
Exons	1372..1548		
GI Descrip.	(AC011698) unknown protein [Arabidopsis thaliana]		

Seq. No.	51863	Seq. ID	OJ991226_35.0419.C30
Gene No.	109753	Strand	-
Start	1125	End	1451
Name	OJ991226_35.0419.C30.o1.gs	Method	GENSCAN
Start	1125	End	1451
GI	none	Score	.72
Exons	1125..1451		

Seq. No.	51863	Seq. ID	OJ991226_35.0419.C30
Gene No.	109754	Strand	
Start	1368	End	1548
Name	OJ991226_35.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	1368	End	1548
GI	none	Score	214
Exons	1368..1547, 1384..1548		

Seq. No.	51863	Seq. ID	OJ991226_35.0419.C30
Gene No.	109754	Strand	
Start	1368	End	1548
Name	OJ991226_35.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	1368	End	1548
GI	none	Score	183
Exons	1368..1547, 1384..1548		

Seq. No.	51864	Seq. ID	OJ991226_35.0419.C31
Gene No.	109755	Strand	+
Start	1	End	229
Name	OJ991226_35.0419.C31.o1.gp	Method	AAT/GAP
Start	1	End	229
GI	5038584	Score	424
Exons	1..229		

Seq. No.	51864	Seq. ID	OJ991226_35.0419.C31
Gene No.	109756	Strand	-
Start	215	End	373
Name	OJ991226_35.0419.C31.o1.gs	Method	GENSCAN
Start	215	End	373
GI	none	Score	.87
Exons	215..373		

Seq. No.	51865	Seq. ID	OJ991226_35.0419.C39
Gene No.	109757	Strand	+
Start	495	End	661
Name	OJ991226_35.0419.C39.o1.gs	Method	GENSCAN
Start	495	End	661
GI	none	Score	.94
Exons	495..661		

Seq. No.	51865	Seq. ID	OJ991226_35.0419.C39
Gene No.	109758	Strand	-
Start	1	End	742
Name	OJ991226_35.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	742
GI	7485196	Score	48
Exons	1..36, 127..206, 649..742		
GI Descrip.	hypothetical protein - Arabidopsis thaliana		

Seq. No.	51866	Seq. ID	OJ991226_35.0419.C40
Gene No.	109759	Strand	-
Start	1	End	1362
Name	OJ991226_35.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1362
GI	267421	Score	109
Exons	1..239, 684..768, 1279..1362		
GI Descrip.	DNA-REPAIR PROTEIN COMPLEMENTING XP-G CELLS HOMOLOG (XERODERMA PIGMENTOSUM GROUP G COMPLEMENTING PROTEIN HOMOLOG) gi\|422627\|pir\|\|S35994 DNA repair protein XPGC - African clawed frog gi\|312433\|emb\|CAA49597\| (X69977) XP-G related factor [Xenopus laevis]		

Seq. No.	51866	Seq. ID	OJ991226_35.0419.C40
Gene No.	109759	Strand	-
Start	1	End	1362
Name	OJ991226_35.0419.C40.o1.gs	Method	GENSCAN
Start	14	End	245
GI	none	Score	.61
Exons	14..245		

Seq. No.	51867	Seq. ID	OJ991226_35.0419.C42
Gene No.	109760	Strand	-
Start	6	End	569
Name	OJ991226_35.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	1	End	443
GI	none	Score	82
Exons	1..84, 1..75, 3..86, 3..86, 66..149, 73..123, 153..257, 153..257, 240..365, 240..359, 257..367, 349..441, 349..441, 368..442, 369..443		

Seq. No.	51867	Seq. ID	OJ991226_35.0419.C42
Gene No.	109760	Strand	-
Start	6	End	569
Name	OJ991226_35.0419.C42.o1.gs	Method	GENSCAN
Start	6	End	569
GI	none	Score	.71
Exons	6..569		

Seq. No.	51868	Seq. ID	OJ991106_35.0419.C6
Gene No.	109761	Strand	+
Start	875	End	955
Name	OJ991106_35.0419.C6.o1.gs	Method	GENSCAN
Start	875	End	955
GI	none	Score	1
Exons	875..955		

Seq. No.	51868	Seq. ID	OJ991106_35.0419.C6
Gene No.	109762	Strand	+
Start	875	End	1109
Name	OJ991106_35.0419.C6.o1.np	Method	AAT/NAP
Start	875	End	1109
GI	3023377	Score	112
Exons	875..955, 1079..1109		
GI Descrip.	LOW-TEMPERATURE INDUCED PROTEIN BLT101 (SALT-STRESS INDUCED HYDROPHOBIC PEPTIDE ESI3) gi\|629776\|pir\|\|S40406 blt101 protein - barley gi\|439273\|emb\|CAA80984\| (Z25537) 54 amino acids [Hordeum vulgare] gi\|551068\|gb\|AAA21847.1\| (U00966) salt-stress induced hydrophobic peptide [Elytrigia elongata]		

Seq. No.	51869	Seq. ID	OJ991106_35.0419.C7
Gene No.	109763	Strand	-
Start	57	End	222
Name	OJ991106_35.0419.C7.o1.gs	Method	GENSCAN
Start	57	End	222
GI	none	Score	.48
Exons	57..222		

Seq. No.	51870	Seq. ID	OJ991106_35.0419.C8
Gene No.	109764	Strand	+
Start	49	End	2752
Name	OJ991106_35.0419.C8.o1.gs	Method	GENSCAN
Start	49	End	2752
GI	none	Score	.6
Exons	49..510, 651..759, 1877..1998, 2703..2752		

Seq. No.	51870	Seq. ID	OJ991106_35.0419.C8
Gene No.	109765	Strand	-
Start	1	End	3280
Name	OJ991106_35.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	3280
GI	6721547	Score	81
Exons	1..38, 3187..3280		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51870	Seq. ID	OJ991106_35.0419.C8
Gene No.	109765	Strand	-
Start	1	End	3280
Name	OJ991106_35.0419.C8.o2.gs	Method	GENSCAN
Start	3089	End	3280
GI	none	Score	.58
Exons	3089..3147, 3196..3280		

Seq. No.	51871	Seq. ID	OJ991106_35.0419.C9
Gene No.	109766	Strand	-
Start	1	End	1181
Name	OJ991106_35.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1181
GI	1172704	Score	390
Exons	1..494, 523..852, 1152..1181		
GI Descrip.	PEPTIDE TRANSPORTER PTR2-B (HISTIDINE TRANSPORTING PROTEIN) gi\|633940 (L39082) transport protein [Arabidopsis thaliana] gi\|4406786\|gb\|AAD20096.1\| (AC006532) histidine transport protein (PTR2-B) [Arabidopsis thaliana]		

Seq. No.	51871	Seq. ID	OJ991106_35.0419.C9
Gene No.	109766	Strand	-
Start	1	End	1181
Name	OJ991106_35.0419.C9.o1.gs	Method	GENSCAN
Start	25	End	924
GI	none	Score	.68
Exons	25..590, 592..708, 719..924		

Seq. No.	51871	Seq. ID	OJ991106_35.0419.C9
Gene No.	109766	Strand	-
Start	1	End	1181
Name	OJ991106_35.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	47	End	825
GI	none	Score	72
Exons	47..286, 393..467, 398..490, 537..578, 716..811, 718..825		

Seq. No.	51871	Seq. ID	OJ991106_35.0419.C9
Gene No.	109766	Strand	-
Start	1	End	1181
Name	OJ991106_35.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	50	End	846
GI	none	Score	59
Exons	50..286, 150..254, 398..463, 405..464, 537..584, 591..704, 697..846, 734..811		

Seq. No.	51871	Seq. ID	OJ991106_35.0419.C9
Gene No.	109766	Strand	-
Start	1	End	1181
Name	OJ991106_35.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	53	End	710
GI	none	Score	54
Exons	53..286, 338..391, 395..481, 402..467, 532..582, 537..581, 594..710		

Seq. No.	51872	Seq. ID	OJ991106_35.0419.C10
Gene No.	109767	Strand	+
Start	540	End	775
Name	OJ991106_35.0419.C10.o1.gs	Method	GENSCAN
Start	540	End	775
GI	none	Score	.56
Exons	540..559, 736..775		

Seq. No.	51873	Seq. ID	OJ991106_35.0419.C11
Gene No.	109768	Strand	+
Start	1	End	178
Name	OJ991106_35.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	178
GI	152_1.R1084	Score	308
Exons	1..178		
GI Descrip.	'1321661/dbj\|BAA08264\| 1.0e-144 (D45423) ascorbate peroxidase [Oryza sativa]'		

Seq. No.	51874	Seq. ID	OJ991106_35.0419.C12
Gene No.	109769	Strand	+
Start	1	End	2770
Name	OJ991106_35.0419.C12.o1.np	Method	AAT/NAP

Start	1	End	2770
GI	5852093	Score	59
Exons	1..88, 1045..1154, 2712..2770		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51874	Seq. ID	OJ991106_35.0419.C12
Gene No.	109770	Strand	-
Start	1532	End	2341
Name	OJ991106_35.0419.C12.o2.gs	Method	GENSCAN
Start	1532	End	2341
GI	none	Score	.7
Exons	1532..1982, 2268..2341		

Seq. No.	51875	Seq. ID	OJ991106_35.0419.C13
Gene No.	109771	Strand	-
Start	593	End	691
Name	OJ991106_35.0419.C13.o1.gp	Method	AAT/GAP
Start	593	End	691
GI	LIB3477-003-P1-K1-E9	Score	108
Exons	593..691		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51876	Seq. ID	OJ991106_35.0419.C14
Gene No.	109772	Strand	-
Start	282	End	344
Name	OJ991106_35.0419.C14.o1.gs	Method	GENSCAN
Start	282	End	344
GI	none	Score	.48
Exons	282..344		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109773	Strand	+
Start	1	End	193
Name	OJ991106_35.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	193
GI	7363274	Score	91
Exons	1..193		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109774	Strand	-
Start	383	End	2231
Name	OJ991106_35.0419.C15.o1.gs	Method	GENSCAN
Start	383	End	2231
GI	none	Score	.78
Exons	383..684, 791..980, 2160..2231		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109775	Strand	-
Start	2854	End	8043
Name	OJ991106_35.0419.C15.o2.gs	Method	GENSCAN
Start	2854	End	3253
GI	none	Score	.7
Exons	2854..2982, 3086..3253		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109775	Strand	-
Start	2854	End	8043
Name	OJ991106_35.0419.C15.o2.np	Method	AAT/NAP
Start	3104	End	7690
GI	4510398	Score	413
Exons	3104..3219, 4900..4969, 7065..7271, 7367..7549, 7580..7690		
GI Descrip.	(AC006587) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109775	Strand	-
Start	2854	End	8043
Name	OJ991106_35.0419.C15.o4.gs	Method	GENSCAN
Start	6879	End	8043
GI	none	Score	.91
Exons	6879..7706, 8029..8043		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109776	Strand	-
Start	9900	End	10238
Name	OJ991106_35.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	7026	End	7462
GI	none	Score	94
Exons	7026..7277, 7159..7272, 7367..7459, 7367..7462, 7371..7460		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109776	Strand	-
Start	9900	End	10238
Name	OJ991106_35.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	7122	End	7508
GI	none	Score	88
Exons	7122..7277, 7159..7281, 7367..7507, 7377..7508		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109776	Strand	-
Start	9900	End	10238
Name	OJ991106_35.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	7179	End	7508
GI	none	Score	86
Exons	7179..7277, 7180..7272, 7185..7286, 7365..7508, 7367..7507		

Seq. No.	51877	Seq. ID	OJ991106_35.0419.C15
Gene No.	109776	Strand	-
Start	9900	End	10238
Name	OJ991106_35.0419.C15.o5.gs	Method	GENSCAN
Start	9900	End	10238
GI	none	Score	.92
Exons	9900..10238		

Seq. No.	51878	Seq. ID	OJ991106_35.0419.C16
Gene No.	109777	Strand	-
Start	288	End	1041
Name	OJ991106_35.0419.C16.o1.gs	Method	GENSCAN
Start	288	End	1041
GI	none	Score	.82
Exons	288..389, 1039..1041		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109778	Strand	+
Start	1	End	2056
Name	OJ991106_35.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	375
GI	6056196	Score	152
Exons	1..83, 216..375		
GI Descrip.	(AC009400) unknown protein [Arabidopsis thaliana]		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109778	Strand	+
Start	1	End	2056
Name	OJ991106_35.0419.C18.o1.gs	Method	GENSCAN
Start	232	End	2056
GI	none	Score	.54
Exons	232..339, 1242..1402, 1696..1725, 1939..2056		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109779	Strand	-
Start	224	End	800
Name	OJ991106_35.0419.C18.o1.gp	Method	AAT/GAP
Start	224	End	800
GI	2977_1.R1084	Score	1090
Exons	224..800		
GI Descrip.	'6056196/gb\|AAF02813.1\|AC009400_9 8.0e-47 (AC009400) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109779	Strand	-
Start	224	End	800
Name	OJ991106_35.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	225	End	375
GI	none	Score	220
Exons	225..374, 229..375		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109779	Strand	-
Start	224	End	800
Name	OJ991106_35.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	229	End	762
GI	none	Score	218
Exons	229..372, 231..374, 231..374, 248..376, 340..405, 368..406, 369..416, 410..493, 413..493, 485..532, 503..538, 504..539, 545..571, 546..572, 550..615, 556..612, 615..671, 615..668, 715..762, 724..759		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109779	Strand	-
Start	224	End	800
Name	OJ991106_35.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	229	End	375
GI	none	Score	218
Exons	229..375, 231..374, 241..375		

Seq. No.	51879	Seq. ID	OJ991106_35.0419.C18
Gene No.	109779	Strand	-

Start	224	End	800
Name	OJ991106_35.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	340	End	671
GI	none	Score	183
Exons	340..495, 342..494, 344..517, 548..661, 552..671, 553..669	516..551, 521..550, 527..670,	

Seq. No.	51880	Seq. ID	OJ991106_35.0419.C20
Gene No.	109780	Strand	+
Start	380	End	1262
Name	OJ991106_35.0419.C20.o1.gs	Method	GENSCAN
Start	380	End	1255
GI	none	Score	.48
Exons	380..438, 734..1255		

Seq. No.	51880	Seq. ID	OJ991106_35.0419.C20
Gene No.	109780	Strand	+
Start	380	End	1262
Name	OJ991106_35.0419.C20.o1.np	Method	AAT/NAP
Start	915	End	1262
GI	6539567	Score	281
Exons	915..1262		
GI Descrip.	(AP000836) EST C72938(E2506) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome I BAC T5A14 genomic sequence; unknown protein (AC005223) [Oryza sativa]		

Seq. No.	51880	Seq. ID	OJ991106_35.0419.C20
Gene No.	109780	Strand	+
Start	380	End	1262
Name	OJ991106_35.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	962	End	1260
GI	none	Score	73
Exons	962..1078, 981..1040, 985..1146, 986..1147, 1144..1236, 1151..1243, 1231..1260, 1237..1260		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.gp	Method	AAT/GAP
Start	1	End	897
GI	none	Score	1276
Exons	1..537, 670..765, 867..897		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.gs	Method	GENSCAN
Start	137	End	1066
GI	none	Score	.43
Exons	137..300, 357..537, 670..817, 910..1066		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.np	Method	AAT/NAP
Start	165	End	1243

GI	4056488	Score	397
Exons	165..519, 670..765, 867..1054, 1203..1243		
GI Descrip.	(AC005896) unknown protein [Arabidopsis thaliana]		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	194	End	1242
GI	none	Score	42
Exons	194..268, 220..240, 256..294, 272..334, 279..335, 284..334, 318..365, 318..356, 371..421, 436..486, 452..487, 452..496, 479..520, 499..528, 731..781, 732..782, 866..1048, 867..1049, 880..1056, 937..1056, 1200..1241, 1201..1242		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	867	End	1079
GI	none	Score	238
Exons	867..1079, 869..1078		

Seq. No.	51881	Seq. ID	OJ991106_35.0419.C22
Gene No.	109781	Strand	-
Start	1	End	1243
Name	OJ991106_35.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	876	End	1133
GI	none	Score	244
Exons	876..1133, 878..1102		

Seq. No.	51882	Seq. ID	OJ991106_35.0419.C23
Gene No.	109782	Strand	-
Start	1	End	1080
Name	OJ991106_35.0419.C23.o1.gp	Method	AAT/GAP
Start	1	End	866
GI	3851_3.R1084	Score	322
Exons	1..65, 757..866		
GI Descrip.	'4056488 2.0e-20 (AC005896) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51882	Seq. ID	OJ991106_35.0419.C23
Gene No.	109782	Strand	-
Start	1	End	1080
Name	OJ991106_35.0419.C23.o1.gs	Method	GENSCAN
Start	25	End	1080
GI	none	Score	.71
Exons	25..65, 757..848, 1033..1080		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	1	End	560
GI	none	Score	68
Exons	1..39, 2..37, 168..233, 168..317, 250..303, 415..549, 417..560, 462..551		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	1	End	560
GI	none	Score	47
Exons	1..39, 2..52, 168..233, 168..317, 250..306, 400..492, 417..560, 421..549		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	1	End	560
GI	none	Score	71
Exons	1..39, 2..37, 2..52, 3..59, 164..220, 168..236, 168..317, 169..306, 415..549, 417..560, 462..551		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	1	End	560
GI	none	Score	53
Exons	1..39, 2..37, 37..78, 168..317, 169..192, 250..306, 417..560, 421..549		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	549
GI	69366_1.R1084	Score	545
Exons	1..36, 168..305, 420..549		
GI Descrip.	'1362151/pir\|\|S56638 1.0e-77 mitogen-activated protein kinase 1 homolog (clone Aspk9) - oat >gi_871984_emb_CAA56314_ (X79993) MAP KINASE [Avena sativa]'		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	549
GI	1362151	Score	418
Exons	1..36, 168..305, 420..549		
GI Descrip.	mitogen-activated protein kinase 1 homolog (clone Aspk9) - oat gi\|871984\|emb\|CAA56314.1\| (X79993) MAP KINASE [Avena sativa]		

Seq. No.	51883	Seq. ID	OJ991106_35.0419.C28
Gene No.	109783	Strand	-
Start	1	End	560
Name	OJ991106_35.0419.C28.o1.gs	Method	GENSCAN
Start	168	End	549
GI	none	Score	.67
Exons	168..305, 420..549		

Seq. No.	51884	Seq. ID	OJ991106_35.0419.C29
Gene No.	109784	Strand	+
Start	336	End	711
Name	OJ991106_35.0419.C29.o1.gs	Method	GENSCAN
Start	336	End	711
GI	none	Score	.84
Exons	336..711		

Seq. No.	51885	Seq. ID	OJ991106_35.0419.C30
Gene No.	109785	Strand	+
Start	1181	End	2438
Name	OJ991106_35.0419.C30.o1.gs	Method	GENSCAN
Start	1181	End	2438
GI	none	Score	.78
Exons	1181..1241, 2144..2261, 2292..2438		

Seq. No.	51885	Seq. ID	OJ991106_35.0419.C30
Gene No.	109786	Strand	-
Start	1	End	387
Name	OJ991106_35.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	387
GI	none	Score	742
Exons	1..387		

Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.gp	Method	AAT/GAP
Start	478	End	1012
GI	40982_1.R1084	Score	990
Exons	478..1012		
GI Descrip.	'6056196/gb\|AAF02813.1\|AC009400_9 5.0e-27 (AC009400) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.np	Method	AAT/NAP
Start	565	End	1153
GI	6056196	Score	537
Exons	565..1153		
GI Descrip.	(AC009400) unknown protein [Arabidopsis thaliana]		

Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.gs	Method	GENSCAN
Start	668	End	1230
GI	none	Score	.95
Exons	668..1153, 1204..1230		

Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	727	End	1153
GI	none	Score	709

Exons	727..1152, 728..1153		
Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	727	End	1153
GI	none	Score	627
Exons	727..1026, 728..1153		
Seq. No.	51886	Seq. ID	OJ991106_35.0419.C31
Gene No.	109787	Strand	+
Start	478	End	1230
Name	OJ991106_35.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	734	End	1024
GI	none	Score	376
Exons	734..1024, 760..1023		
Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	671
GI	6056196	Score	313
Exons	1..130, 300..671		
GI Descrip.	(AC009400) unknown protein [Arabidopsis thaliana]		
Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	26	End	585
GI	none	Score	173
Exons	26..130, 27..131, 284..469, 286..582, 300..548, 301..585		
Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	47	End	528
GI	none	Score	121
Exons	47..130, 48..131, 301..495, 301..495, 490..528		
Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.gs	Method	GENSCAN
Start	60	End	528
GI	none	Score	.95
Exons	60..130, 300..528		
Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.gp	Method	AAT/GAP
Start	83	End	530
GI	2977_1.R1084	Score	494

Exons	83..130, 300..530		
GI Descrip.	'6056196/gb\|AAF02813.1\|AC009400_9 8.0e-47 (AC009400) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51887	Seq. ID	OJ991106_35.0419.C32
Gene No.	109788	Strand	+
Start	1	End	671
Name	OJ991106_35.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	358	End	531
GI	none	Score	196
Exons	358..531, 358..441, 363..467		

Seq. No.	51888	Seq. ID	OJ991106_35.0419.C34
Gene No.	109789	Strand	+
Start	255	End	987
Name	OJ991106_35.0419.C34.o1.gs	Method	GENSCAN
Start	255	End	987
GI	none	Score	.4
Exons	255..363, 977..987		

Seq. No.	51889	Seq. ID	OJ991106_35.0419.C35
Gene No.	109790	Strand	+
Start	559	End	681
Name	OJ991106_35.0419.C35.o1.gs	Method	GENSCAN
Start	559	End	681
GI	none	Score	.88
Exons	559..681		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689
Name	OJ991106_35.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1689
GI	6996265	Score	884
Exons	1..144, 665..808, 890..1571, 1664..1689		
GI Descrip.	(AL138657) putative protein [Arabidopsis thaliana]		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689
Name	OJ991106_35.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	1	End	1528
GI	none	Score	120
Exons	1..147, 21..146, 662..808, 664..807, 890..949, 955..1116, 959..1129, 1129..1236, 1130..1246, 1276..1527, 1277..1528		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689
Name	OJ991106_35.0419.C36.o1.gs	Method	GENSCAN
Start	4	End	1564
GI	none	Score	.91
Exons	4..144, 665..757, 890..1403, 1482..1564		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689

Name	OJ991106_35.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	755	End	1237
GI	none	Score	68
Exons	755..805, 887..931, 952..1107, 959..1123, 966..1106, 967..1122, 1127..1237, 1129..1236		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689
Name	OJ991106_35.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	1187	End	1518
GI	none	Score	72
Exons	1187..1246, 1219..1518, 1277..1516		

Seq. No.	51890	Seq. ID	OJ991106_35.0419.C36
Gene No.	109791	Strand	+
Start	1	End	1689
Name	OJ991106_35.0419.C36.o2.ts	Method	TBLASTX:Soybean
Start	1272	End	1447
GI	none	Score	56
Exons	1272..1409, 1276..1443, 1277..1447, 1277..1447		

Seq. No.	51891	Seq. ID	OJ991106_35.0419.C38
Gene No.	109792	Strand	+
Start	1	End	610
Name	OJ991106_35.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	610
GI	6069646	Score	95
Exons	1..47, 195..610		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109793	Strand	+
Start	4319	End	8524
Name	OJ991106_37.0419.C2.o1.gp	Method	AAT/GAP
Start	4319	End	6517
GI	5003503	Score	1454
Exons	4319..4508, 5946..6517		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109793	Strand	+
Start	4319	End	8524
Name	OJ991106_37.0419.C2.o3.np	Method	AAT/NAP
Start	5950	End	8524
GI	7487029	Score	986
Exons	5950..6504, 6562..7170, 7726..7853, 8131..8524		
GI Descrip.	hypothetical protein T15F16.10 - Arabidopsis thaliana gi\|3377810\|gb\|AAC28183.1\| (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana] gi\|7267497\|emb\|CAB77980.1\| (AL161512) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109793	Strand	+

Start	4319	End	8524
Name	OJ991106_37.0419.C2.o2.gp	Method	AAT/GAP
Start	8349	End	8425
GI	5003502	Score	113
Exons	8349..8425		
GI Descrip.	3377810 4.0e-26 (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana]		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109794	Strand	-
Start	1	End	4209
Name	OJ991106_37.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1558
GI	5902376	Score	110
Exons	1..24, 1406..1558		
GI Descrip.	(AC009322) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109794	Strand	-
Start	1	End	4209
Name	OJ991106_37.0419.C2.o2.np	Method	AAT/NAP
Start	752	End	4209
GI	6721512	Score	109
Exons	752..838, 2280..2415, 2442..2560, 4099..4209		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109795	Strand	
Start	6637	End	7128
Name	OJ991106_37.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	6637	End	7116
GI	none	Score	426
Exons	6637..7116, 6642..7115, 7009..7116		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109795	Strand	
Start	6637	End	7128
Name	OJ991106_37.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	6856	End	7128
GI	none	Score	339
Exons	6856..7128, 6856..6948, 6857..7126, 7009..7128		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109796	Strand	
Start	7614	End	8215
Name	OJ991106_37.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	7614	End	8215
GI	none	Score	292
Exons	7614..7853, 7618..7854, 8129..8215		

Seq. No.	51892	Seq. ID	OJ991106_37.0419.C2
Gene No.	109797	Strand	
Start	8252	End	8433
Name	OJ991106_37.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	8252	End	8433
GI	none	Score	303
Exons	8252..8425, 8256..8423, 8257..8433, 8257..8424		

Seq. No.	51893	Seq. ID	OJ991106_37.0419.C3
Gene No.	109798	Strand	+
Start	718	End	915
Name	OJ991106_37.0419.C3.o1.gs	Method	GENSCAN
Start	718	End	914
GI	none	Score	.72
Exons	718..914		

Seq. No.	51893	Seq. ID	OJ991106_37.0419.C3
Gene No.	109798	Strand	+
Start	718	End	915
Name	OJ991106_37.0419.C3.o1.np	Method	AAT/NAP
Start	718	End	915
GI	7487029	Score	225
Exons	718..915		
GI Descrip.	hypothetical protein T15F16.10 - Arabidopsis thaliana gi\|3377810\|gb\|AAC28183.1\| (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana] gi\|7267497\|emb\|CAB77980.1\| (AL161512) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51893	Seq. ID	OJ991106_37.0419.C3
Gene No.	109799	Strand	-
Start	716	End	923
Name	OJ991106_37.0419.C3.o1.gp	Method	AAT/GAP
Start	716	End	923
GI	5003502	Score	360
Exons	716..923		
GI Descrip.	3377810 4.0e-26 (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana]		

Seq. No.	51894	Seq. ID	OJ991106_37.0419.C4
Gene No.	109800	Strand	+
Start	1	End	759
Name	OJ991106_37.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	759
GI	5003502	Score	848
Exons	1..31, 286..759		
GI Descrip.	3377810 4.0e-26 (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana]		

Seq. No.	51895	Seq. ID	OJ991106_37.0419.C8
Gene No.	109801	Strand	-
Start	1	End	402
Name	OJ991106_37.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	402
GI	6598689	Score	505
Exons	1..402		
GI Descrip.	(AC007168) unknown protein [Arabidopsis thaliana]		

Seq. No.	51895	Seq. ID	OJ991106_37.0419.C8
Gene No.	109802	Strand	-
Start	6005	End	9613
Name	OJ991106_37.0419.C8.o2.gs	Method	GENSCAN
Start	6005	End	9613
GI	none	Score	.58
Exons	6005..6127, 6372..6567, 7180..7280, 9539..9613		

Seq. No.	51896	Seq. ID	OJ991106_37.0419.C9
Gene No.	109803	Strand	-
Start	345	End	1474
Name	OJ991106_37.0419.C9.o1.gs	Method	GENSCAN
Start	345	End	1474
GI	none	Score	.92
Exons	345..449, 1370..1474		

Seq. No.	51897	Seq. ID	OJ991106_37.0419.C10
Gene No.	109804	Strand	+
Start	1020	End	3832
Name	OJ991106_37.0419.C10.o1.gs	Method	GENSCAN
Start	1020	End	3832
GI	none	Score	.57
Exons	1020..1063, 1749..1836, 1864..1919, 3367..3471, 3556..3832		

Seq. No.	51897	Seq. ID	OJ991106_37.0419.C10
Gene No.	109805	Strand	+
Start	11864	End	13853
Name	OJ991106_37.0419.C10.o3.gs	Method	GENSCAN
Start	11864	End	13702
GI	none	Score	.65
Exons	11864..12027, 13254..13702		

Seq. No.	51897	Seq. ID	OJ991106_37.0419.C10
Gene No.	109805	Strand	+
Start	11864	End	13853
Name	OJ991106_37.0419.C10.o3.np	Method	AAT/NAP
Start	13573	End	13853
GI	4097587	Score	85
Exons	13573..13853		
GI Descrip.	(U64926) NTGP5 [Nicotiana tabacum]		

Seq. No.	51897	Seq. ID	OJ991106_37.0419.C10
Gene No.	109806	Strand	-
Start	8562	End	10011
Name	OJ991106_37.0419.C10.o2.np	Method	AAT/NAP
Start	5446	End	10011
GI	5042463	Score	197
Exons	5446..5474, 7207..7311, 7358..7512, 8184..8364, 9938..10011		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51897	Seq. ID	OJ991106_37.0419.C10
Gene No.	109806	Strand	-
Start	8562	End	10011
Name	OJ991106_37.0419.C10.o2.gs	Method	GENSCAN
Start	8562	End	9267
GI	none	Score	.67
Exons	8562..8699, 8944..9064, 9239..9267		

Seq. No.	51898	Seq. ID	OJ991106_37.0419.C11
Gene No.	109807	Strand	+
Start	660	End	795
Name	OJ991106_37.0419.C11.o1.gs	Method	GENSCAN
Start	660	End	795
GI	none	Score	.78

Exons	660..795		
Seq. No.	51899	Seq. ID	OJ991106_37.0419.C13
Gene No.	109808	Strand	-
Start	1	End	280
Name	OJ991106_37.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	280
GI	none	Score	517
Exons	1..280		
Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109809	Strand	+
Start	266	End	375
Name	OJ991106_37.0419.C14.o1.gs	Method	GENSCAN
Start	266	End	375
GI	none	Score	.76
Exons	266..375		
Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109810	Strand	+
Start	4982	End	7567
Name	OJ991106_37.0419.C14.o1.np	Method	AAT/NAP
Start	4426	End	7374
GI	4417286	Score	460
Exons	4426..4445, 6021..6081, 6200..6365, 6532..6609, 6703..6832, 7057..7135, 7277..7374		
GI Descrip.	(AC007019) putative shikimate kinase precursor [Arabidopsis thaliana]		
Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109810	Strand	+
Start	4982	End	7567
Name	OJ991106_37.0419.C14.o3.gs	Method	GENSCAN
Start	4982	End	7567
GI	none	Score	.89
Exons	4982..5180, 5857..5903, 6527..6609, 6703..6775, 7057..7135, 7277..7341, 7463..7567		
Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109810	Strand	+
Start	4982	End	7567
Name	OJ991106_37.0419.C14.o1.gp	Method	AAT/GAP
Start	6024	End	6782
GI	LIB3432-031-P1-K1-F1	Score	664
Exons	6024..6081, 6200..6360, 6527..6609, 6703..6782		
GI Descrip.	'2224911 3.0e-25 (U93048) somatic embryogenesis receptor-like kinase [Daucus carota]'		
Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109811	Strand	+
Start	14646	End	18370
Name	OJ991106_37.0419.C14.o6.gs	Method	GENSCAN
Start	14646	End	18370
GI	none	Score	.56
Exons	14646..14724, 14847..14979, 15064..15135, 15518..15615, 16464..16601, 16679..16943, 17339..17546, 18044..18370		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109811	Strand	+
Start	14646	End	18370
Name	OJ991106_37.0419.C14.o2.np	Method	AAT/NAP
Start	14766	End	18367
GI	5091623	Score	1440
Exons	14766..14979, 15064..15135, 15518..15661, 15794..15865, 15937..16119, 16468..16601, 16679..17019, 17152..17546, 18044..18367		
GI Descrip.	(AC007454) Similar to gb\|U93048 somatic embryogenesis receptor-like kinase from Daucus carota, contains 4 PF\|00560 Leucine Rich Repeat domains and a PF\|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109812	Strand	-
Start	627	End	2752
Name	OJ991106_37.0419.C14.o2.gs	Method	GENSCAN
Start	627	End	2752
GI	none	Score	.63
Exons	627..646, 782..832, 1257..1294, 2682..2752		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109813	Strand	-
Start	17086	End	17387
Name	OJ991106_37.0419.C14.o2.gp	Method	AAT/GAP
Start	17086	End	17387
GI	2317436	Score	546
Exons	17086..17387		
GI Descrip.	2224911 3.0e-25 (U93048) somatic embryogenesis receptor-like kinase [Daucus carota]		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	5855	End	7607
GI	none	Score	75
Exons	5855..5908, 5856..5903, 6020..6082, 6021..6083, 6187..6372, 6195..6371, 6524..6610, 6525..6611, 6526..6609, 6704..6826, 6706..6825, 7055..7135, 7056..7139, 7057..7134, 7058..7135, 7272..7340, 7274..7345, 7276..7350, 7451..7510, 7471..7509, 7509..7607, 7514..7603		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	16474	End	18340
GI	none	Score	81
Exons	16474..16593, 16523..16597, 16681..16959, 16690..16956, 16776..16982, 16818..16958, 16962..17018, 16966..17043, 17151..17561, 17171..17548, 17175..17561, 18017..18112, 18137..18229, 18168..18242, 18230..18340		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-

Start	19172	End	21419
Name	OJ991106_37.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	16474	End	17536
GI	none	Score	81
Exons	16474..16593, 16523..16597, 16681..16959, 16688..16918, 16690..16956, 16776..16982, 16818..16958, 16962..17018, 16966..17043, 17151..17528, 17171..17536, 17180..17530		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	16538	End	17474
GI	none	Score	52
Exons	16538..16597, 16657..16956, 16693..16956, 16962..17018, 17128..17454, 17175..17474, 17177..17473		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	16702	End	16950
GI	none	Score	181
Exons	16702..16950		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	17174	End	17524
GI	none	Score	297
Exons	17174..17524, 17175..17492		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o3.np	Method	AAT/NAP
Start	18654	End	21419
GI	7486686	Score	110
Exons	18654..18703, 19227..19643, 21397..21419		
GI Descrip.	hypothetical protein F8K4.20 - Arabidopsis thaliana gi\|3367531\|gb\|AAC28516.1\| (AC004392) Strong similarity to gi\|2160138 F19K23.6 gene product from A. thaliana BAC gb\|AC000375. [Arabidopsis thaliana]		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o7.gs	Method	GENSCAN
Start	19172	End	20353
GI	none	Score	.8
Exons	19172..20353		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o4.tm	Method	TBLASTX:Maize

Start	19195	End	19695
GI	none	Score	64
Exons	19195..19293, 19203..19298, 19208..19468, 19208..19348, 19344..19463, 19400..19561, 19588..19695		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	19424	End	19807
GI	none	Score	61
Exons	19424..19555, 19565..19720, 19596..19721, 19751..19807		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	19746	End	20368
GI	none	Score	240
Exons	19746..20213, 19754..20224, 20303..20368, 20309..20350		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o4.np	Method	AAT/NAP
Start	19904	End	20502
GI	5734709	Score	178
Exons	19904..20502		
GI Descrip.	(AC008075) Contains PF\|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	51900	Seq. ID	OJ991106_37.0419.C14
Gene No.	109814	Strand	-
Start	19172	End	21419
Name	OJ991106_37.0419.C14.o3.gp	Method	AAT/GAP
Start	20005	End	20367
GI	none	Score	635
Exons	20005..20367		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	113	End	503
GI	none	Score	414
Exons	113..397, 114..503, 121..501, 123..503		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	132	End	725
GI	none	Score	44
Exons	132..179, 192..725, 197..391, 384..704, 458..724		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-

Start	1431	End	2607
Name	OJ991106_37.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	372	End	713
GI	none	Score	185
Exons	372..713		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1425	End	1754
GI	none	Score	98
Exons	1425..1709, 1432..1515, 1533..1754		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	1428	End	1709
GI	none	Score	103
Exons	1428..1709, 1432..1515, 1582..1650		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o2.gs	Method	GENSCAN
Start	1431	End	1751
GI	none	Score	1
Exons	1431..1751		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	1431	End	1754
GI	none	Score	138
Exons	1431..1709, 1434..1754		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1432	End	1765
GI	none	Score	116
Exons	1432..1623, 1434..1754, 1434..1709, 1667..1753, 1682..1765		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o2.np	Method	AAT/NAP
Start	1434	End	2607
GI	5922611	Score	410
Exons	1434..1751, 2546..2607		
GI Descrip.	(AP000492) ESTs AU078117(E1380),C72293(E1380) correspond to a region of the predicted gene.; similar to SAR1/GTP-binding secretory factor. (AF001308) [Oryza sativa]		

Seq. No.	51901	Seq. ID	OJ991106_37.0419.C15
Gene No.	109815	Strand	-
Start	1431	End	2607
Name	OJ991106_37.0419.C15.o1.gp	Method	AAT/GAP
Start	1735	End	2113
GI	none	Score	738
Exons	1735..2113		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109816	Strand	-
Start	1	End	2239
Name	OJ991106_37.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	2200
GI	3334323	Score	340
Exons	1..122, 1534..1669, 2072..2200		
GI Descrip.	GTP-BINDING PROTEIN SAR1A gi\|7438460\|pir\|\|T01509 GTP-binding protein T10M13.9 - Arabidopsis thaliana gi\|1314860\|gb\|AAA99827.1\| (U56929) Sar1 homolog [Arabidopsis thaliana] gi\|2104532\|gb\|AAC78700.1\| (AF001308) SAR1/GTP-binding secretory factor [Arabidopsis thaliana] gi\|2104550\|gb\|AAB57799.1\| (AF001535) AGAA.4 [Arabidopsis thaliana] gi\|7268592\|emb\|CAB80701.1\| (AL1614		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109816	Strand	-
Start	1	End	2239
Name	OJ991106_37.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	1535	End	2198
GI	none	Score	139
Exons	1535..1672, 1536..1658, 2072..2197, 2082..2198		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109816	Strand	-
Start	1	End	2239
Name	OJ991106_37.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	1535	End	2207
GI	none	Score	187
Exons	1535..1672, 1536..1658, 2072..2197, 2082..2207, 2139..2198		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109816	Strand	-
Start	1	End	2239
Name	OJ991106_37.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	1535	End	2239
GI	none	Score	187
Exons	1535..1672, 1536..1658, 2072..2239, 2082..2198		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109816	Strand	-
Start	1	End	2239
Name	OJ991106_37.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1535	End	2219
GI	none	Score	149
Exons	1535..1672, 1536..1658, 2072..2197, 2082..2219		

Seq. No.	51902	Seq. ID	OJ991106_37.0419.C16
Gene No.	109817	Strand	

Start	3930	End	4491
Name	OJ991106_37.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	3930	End	4491
GI	none	Score	447
Exons	3930..4409, 3937..4428, 4126..4410, 4384..4491, 4388..4486		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109818	Strand	+
Start	597	End	966
Name	OJ991106_37.0419.C17.o1.gp	Method	AAT/GAP
Start	597	End	966
GI	LIB3434-003-P1-K1-H6	Score	713
Exons	597..966		
GI Descrip.	'2062705/gb\|U90552\|HSU90552 8.0e-15 Human butyrophilin (BTF5) mRNA, complete cds'		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109819	Strand	+
Start	1330	End	5326
Name	OJ991106_37.0419.C17.o1.gs	Method	GENSCAN
Start	1330	End	4244
GI	none	Score	.86
Exons	1330..1381, 2694..2764, 2949..3092, 3152..3325, 3382..3506, 3522..4244		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109819	Strand	+
Start	1330	End	5326
Name	OJ991106_37.0419.C17.o1.np	Method	AAT/NAP
Start	2445	End	5326
GI	3023947	Score	131
Exons	2445..2486, 3538..3701, 5253..5326		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi\|2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109820	Strand	+
Start	5936	End	8808
Name	OJ991106_37.0419.C17.o3.np	Method	AAT/NAP
Start	5936	End	8808
GI	7486686	Score	114
Exons	5936..5974, 8112..8489, 8757..8808		
GI Descrip.	hypothetical protein F8K4.20 - Arabidopsis thaliana gi\|3367531\|gb\|AAC28516.1\| (AC004392) Strong similarity to gi\|2160138 F19K23.6 gene product from A. thaliana BAC gb\|AC000375. [Arabidopsis thaliana]		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109820	Strand	+
Start	5936	End	8808
Name	OJ991106_37.0419.C17.o3.gp	Method	AAT/GAP
Start	6136	End	6918
GI	2800115	Score	761
Exons	6136..6410, 6761..6918		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109820	Strand	+

Start	5936	End	8808
Name	OJ991106_37.0419.C17.o4.gp	Method	AAT/GAP
Start	7347	End	7702
GI	287117	Score	671
Exons	7347..7702		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	6	End	8510
GI	none	Score	62
Exons	6..134, 1243..1317, 1332..1370, 5365..5718, 5397..5714, 5455..5718, 8157..8504, 8159..8500, 8229..8510		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	3462	End	3677
GI	none	Score	62
Exons	3462..3518, 3521..3559, 3560..3664, 3561..3665, 3653..3676, 3654..3677		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	3521	End	3677
GI	none	Score	69
Exons	3521..3559, 3561..3665, 3563..3664, 3654..3677		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	4612	End	7970
GI	none	Score	198
Exons	4612..4845, 4674..4853, 4858..5175, 4998..5171, 5041..5175, 7380..7970, 7415..7855, 7845..7967		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	5341	End	8510
GI	none	Score	199
Exons	5341..5703, 8136..8510		

Seq. No.	51903	Seq. ID	OJ991106_37.0419.C17
Gene No.	109821	Strand	-
Start	9719	End	9784
Name	OJ991106_37.0419.C17.o5.gp	Method	AAT/GAP
Start	9719	End	9784
GI	2311279	Score	77
Exons	9719..9784		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	3	End	8584
GI	none	Score	140
Exons	3..206, 8..202, 158..343, 206..346, 2928..3317, 2929..3336, 8125..8571, 8126..8584		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	108	End	8584
GI	none	Score	48
Exons	108..158, 206..349, 209..349, 374..514, 374..514, 3169..3219, 8348..8398, 8414..8584		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	539	End	9088
GI	none	Score	93
Exons	539..679, 577..786, 749..787, 3402..3680, 3521..3697, 8774..9013, 8863..9000, 9041..9088		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	578	End	9118
GI	none	Score	81
Exons	578..676, 597..827, 598..882, 746..886, 3470..3775, 3471..3776, 3492..3776, 3544..3777, 3691..3777, 8812..8997, 8813..9118, 8840..9118		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	743	End	9106
GI	none	Score	63
Exons	743..880, 3414..3764, 8749..9057, 8771..9106		

Seq. No.	51904	Seq. ID	OJ991106_37.0419.C18
Gene No.	109822	Strand	+
Start	7991	End	9169
Name	OJ991106_37.0419.C18.o2.gs	Method	GENSCAN
Start	7991	End	9169
GI	none	Score	.52
Exons	7991..9169		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.np	Method	AAT/NAP

Start	1	End	1721
GI	6056413	Score	583
Exons	1..59, 150..261, 373..429, 541..679, 766..950, 1072..1155, 1581..1721		
GI Descrip.	(AC009525) Unknown protein [Arabidopsis thaliana]		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	4	End	1146
GI	none	Score	82
Exons	4..66, 535..681, 542..673, 765..953, 772..951, 783..965, 1066..1146, 1070..1129		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.gs	Method	GENSCAN
Start	154	End	1155
GI	none	Score	.94
Exons	154..225, 373..429, 541..679, 766..950, 1072..1155		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.gp	Method	AAT/GAP
Start	196	End	920
GI	LIB3434-027-P1-K1-B10	Score	671
Exons	196..227, 374..429, 541..679, 766..920		
GI Descrip.	'6056413/gb\|AAF02877.1\|AC009525_11 7.0e-41 (AC009525) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	373	End	915
GI	none	Score	53
Exons	373..435, 374..436, 535..681, 542..673, 733..915, 765..914		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	373	End	681
GI	none	Score	43
Exons	373..435, 373..435, 518..673, 535..681		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	604	End	1713
GI	none	Score	109
Exons	604..681, 605..679, 765..953, 766..951, 1066..1140, 1066..1146, 1070..1147, 1138..1167, 1139..1159, 1585..1713, 1585..1704		

Seq. No.	51905	Seq. ID	OJ991106_37.0419.C19
Gene No.	109823	Strand	-
Start	1	End	1721
Name	OJ991106_37.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	759	End	1717
GI	none	Score	159
Exons	759..950, 765..953, 769..951, 1066..1167, 1070..1168, 1566..1703, 1582..1704, 1582..1704, 1583..1717		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	1222
GI	7487016	Score	143
Exons	1..24, 732..974, 1167..1222		
GI Descrip.	hypothetical protein T14P8.7 - Arabidopsis thaliana gi\|3193292\|gb\|AAC19276.1\| (AF069298) similar to ATPases associated with various cellular activites (Pfam: AAA.hmm, score: 230.91) [Arabidopsis thaliana] gi\|7269007\|emb\|CAB80740.1\| (AL161494) coded for by A. thaliana cDNA T88606, coded for by A. thaliana cDNA T75804; strong similarity to similar to ATPases associated with v		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	1	End	228
GI	none	Score	245
Exons	1..228, 1..210		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	702	End	1789
GI	none	Score	205
Exons	702..914, 709..906, 711..929, 1014..1091, 1018..1098, 1167..1262, 1169..1261, 1712..1789, 1712..1786		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	726	End	911
GI	none	Score	100
Exons	726..908, 727..894, 741..911		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	726	End	944
GI	none	Score	100
Exons	726..908, 741..944		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.gs	Method	GENSCAN
Start	732	End	4749
GI	none	Score	.87
Exons	732..908, 2234..2341, 3400..3441, 3539..3730, 3924..3994, 4081..4235, 4684..4749		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	732	End	1276
GI	none	Score	87
Exons	732..908, 742..894, 1169..1276		

Seq. No.	51906	Seq. ID	OJ991106_37.0419.C20
Gene No.	109824	Strand	-
Start	1	End	4759
Name	OJ991106_37.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	3572	End	4759
GI	none	Score	137
Exons	3572..3733, 3572..3730, 3580..3732, 3908..3994, 3918..3995, 4082..4240, 4152..4229, 4163..4237, 4170..4244, 4678..4755, 4684..4755, 4688..4759		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109825	Strand	+
Start	2549	End	8942
Name	OJ991106_37.0419.C21.o2.gs	Method	GENSCAN
Start	2549	End	8942
GI	none	Score	.53
Exons	2549..2661, 3845..3895, 3985..4120, 4597..5133, 5231..5456, 5546..5976, 6242..6403, 6494..6761, 6893..7018, 8743..8942		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109825	Strand	+
Start	2549	End	8942
Name	OJ991106_37.0419.C21.o2.np	Method	AAT/NAP
Start	3726	End	6011
GI	6967112	Score	427
Exons	3726..3776, 4787..4861, 4959..5133, 5231..5456, 5546..6011		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109825	Strand	+
Start	2549	End	8942
Name	OJ991106_37.0419.C21.o2.gp	Method	AAT/GAP
Start	5983	End	6687
GI	none	Score	1158
Exons	5983..6403, 6494..6687		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109825	Strand	+
Start	2549	End	8942

Name	OJ991106_37.0419.C21.o3.gp	Method	AAT/GAP
Start	7209	End	7401
GI	LIB3432-017-P1-K1-G8	Score	347
Exons	7209..7401		
GI Descrip.	'5441872/dbj\|AP000366.1\|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109826	Strand	+
Start	10575	End	10775
Name	OJ991106_37.0419.C21.o5.gp	Method	AAT/GAP
Start	10218	End	10775
GI	60750_1.R1084	Score	445
Exons	10218..10257, 10572..10775		
GI Descrip.	'3377810 4.0e-26 (AF076275) contains similarity to glutaredoxins [Arabidopsis thaliana]'		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109826	Strand	+
Start	10575	End	10775
Name	OJ991106_37.0419.C21.o3.gs	Method	GENSCAN
Start	10575	End	10775
GI	none	Score	.68
Exons	10575..10775		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109827	Strand	-
Start	185	End	4212
Name	OJ991106_37.0419.C21.o1.np	Method	AAT/NAP
Start	185	End	4212
GI	5734783	Score	391
Exons	185..234, 890..1011, 1309..1508, 1587..1681, 1775..1899, 2000..2184, 4148..4212		
GI Descrip.	(AC007980) 96541 [Arabidopsis thaliana]		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109827	Strand	-
Start	185	End	4212
Name	OJ991106_37.0419.C21.o1.gs	Method	GENSCAN
Start	890	End	2430
GI	none	Score	.66
Exons	890..980, 1311..1508, 1587..1681, 1805..1899, 2000..2430		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109827	Strand	-
Start	185	End	4212
Name	OJ991106_37.0419.C21.o1.gp	Method	AAT/GAP
Start	2144	End	2664
GI	none	Score	1022
Exons	2144..2664		

Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	1585	End	1892
GI	none	Score	112

Exons	1585..1683, 1587..1682, 1768..1857, 1769..1885, 1770..1877, 1773..1892		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	4816	End	5097
GI	none	Score	225
Exons	4816..5097, 4866..5027		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	5104	End	5694
GI	none	Score	36
Exons	5104..5133, 5215..5394, 5217..5393, 5234..5425, 5236..5424, 5544..5645, 5545..5649, 5650..5694		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	5217	End	6559
GI	none	Score	141
Exons	5217..5429, 5218..5430, 5233..5457, 5234..5458, 5542..5745, 5544..5720, 5545..5745, 5553..5750, 5558..5764, 6338..6406, 6484..6555, 6488..6556, 6488..6559, 6489..6557		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	5272	End	5781
GI	none	Score	130
Exons	5272..5394, 5273..5428, 5541..5630, 5545..5649, 5644..5781, 5650..5751		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109828	Strand	-
Start	9333	End	9760
Name	OJ991106_37.0419.C21.o4.gp	Method	AAT/GAP
Start	9333	End	9760
GI	286806	Score	235
Exons	9333..9372, 9608..9760		
GI Descrip.	5441872/dbj\|AP000366.1\|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)		
Seq. No.	51907	Seq. ID	OJ991106_37.0419.C21
Gene No.	109829	Strand	
Start	10551	End	10777
Name	OJ991106_37.0419.C21.o4.tm	Method	TBLASTX:Maize
Start	10551	End	10777
GI	none	Score	189
Exons	10551..10760, 10569..10757, 10586..10777, 10586..10759		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	3344
GI	421960	Score	594
Exons	1..209, 911..1004, 2172..2257, 3072..3344		
GI Descrip.	small nuclear ribonucleoprotein U2B'' - potato gi\|169589\|gb\|AAA33847.1\| (M72892) spliceosomal protein [Solanum tuberosum]		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.gs	Method	GENSCAN
Start	18	End	3347
GI	none	Score	.87
Exons	18..209, 911..1004, 2169..2242, 3138..3347		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	32	End	3305
GI	none	Score	147
Exons	32..214, 36..215, 911..1006, 916..1005, 3098..3304, 3099..3305, 3111..3305		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	32	End	1003
GI	none	Score	228
Exons	32..214, 36..215, 38..220, 911..1003, 922..1002		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	32	End	984
GI	none	Score	259
Exons	32..208, 36..209, 42..209, 880..984, 911..982		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.gp	Method	AAT/GAP
Start	35	End	3489
GI	383_2.R1084	Score	1353
Exons	35..209, 911..1004, 2169..2242, 3063..3489		
GI Descrip.	'421960/pir\|\|S34448 9.0e-63 small nuclear ribonucleoprotein U2B'''' - potato >gi_169589 (M72892) spliceosomal protein [Solanum tuberosum]'		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+

Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	68	End	3374
GI	none	Score	214
Exons	68..208, 69..209, 69..209, 71..214, 878..1003, 880..1002, 909..1004, 912..1007, 2166..2225, 2176..2226, 2218..2241, 2220..2243, 3062..3373, 3063..3374		

Seq. No.	51908	Seq. ID	OJ991106_38.0419.C1
Gene No.	109830	Strand	+
Start	1	End	3489
Name	OJ991106_38.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	3098	End	3353
GI	none	Score	340
Exons	3098..3349, 3099..3353		

Seq. No.	51909	Seq. ID	OJ991106_38.0419.C2
Gene No.	109831	Strand	+
Start	464	End	2750
Name	OJ991106_38.0419.C2.o1.gs	Method	GENSCAN
Start	464	End	2446
GI	none	Score	.84
Exons	464..618, 1621..1781, 1917..2040, 2146..2275, 2375..2446		

Seq. No.	51909	Seq. ID	OJ991106_38.0419.C2
Gene No.	109831	Strand	+
Start	464	End	2750
Name	OJ991106_38.0419.C2.o1.np	Method	AAT/NAP
Start	464	End	2750
GI	7327832	Score	374
Exons	464..696, 1621..1781, 1914..2040, 2146..2260, 2724..2750		
GI Descrip.	(AL161946) putative protein [Arabidopsis thaliana]		

Seq. No.	51910	Seq. ID	OJ991106_38.0419.C3
Gene No.	109832	Strand	+
Start	1	End	2522
Name	OJ991106_38.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2522
GI	7487165	Score	66
Exons	1..167, 1598..1662, 1750..1833, 1916..2026, 2470..2522		
GI Descrip.	hypothetical protein T19C21.7 - Arabidopsis thaliana gi\|3395428\|gb\|AAC28760.1\| (AC004683) unknown protein [Arabidopsis thaliana]		

Seq. No.	51910	Seq. ID	OJ991106_38.0419.C3
Gene No.	109832	Strand	+
Start	1	End	2522
Name	OJ991106_38.0419.C3.o1.gs	Method	GENSCAN
Start	125	End	2023
GI	none	Score	.59
Exons	125..1662, 1750..1833, 1916..2023		

Seq. No.	51910	Seq. ID	OJ991106_38.0419.C3
Gene No.	109832	Strand	+
Start	1	End	2522
Name	OJ991106_38.0419.C3.o1.gp	Method	AAT/GAP
Start	392	End	814

GI	3768365	Score	773
Exons	392..814		
Seq. No.	51910	Seq. ID	OJ991106_38.0419.C3
Gene No.	109832	Strand	+
Start	1	End	2522
Name	OJ991106_38.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1755	End	2188
GI	none	Score	71
Exons	1755..1829, 1761..1829, 1762..1830, 1915..2022, 1916..2023, 2114..2188, 2130..2183, 2131..2184		
Seq. No.	51910	Seq. ID	OJ991106_38.0419.C3
Gene No.	109832	Strand	+
Start	1	End	2522
Name	OJ991106_38.0419.C3.o2.gp	Method	AAT/GAP
Start	1943	End	2522
GI	none	Score	888
Exons	1943..2023, 2133..2522		
Seq. No.	51911	Seq. ID	OJ991106_38.0419.C4
Gene No.	109833	Strand	+
Start	65	End	1316
Name	OJ991106_38.0419.C4.o1.gs	Method	GENSCAN
Start	65	End	1316
GI	none	Score	.72
Exons	65..145, 943..1012, 1246..1316		
Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109834	Strand	+
Start	1	End	719
Name	OJ991106_38.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	716
GI	6016696	Score	290
Exons	1..88, 219..557, 597..716		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		
Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109834	Strand	+
Start	1	End	719
Name	OJ991106_38.0419.C8.o1.gs	Method	GENSCAN
Start	134	End	719
GI	none	Score	.68
Exons	134..250, 386..719		
Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109835	Strand	-
Start	1	End	1143
Name	OJ991106_38.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	1143
GI	4171_1.R1084	Score	2195
Exons	1..1143		
GI Descrip.	'6016696/gb\|AAF01523.1\|AC009991_19 2.0e-31 (AC009991) unknown protein [Arabidopsis thaliana]'		
Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109835	Strand	-

Start	1	End	1143
Name	OJ991106_38.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	181	End	749
GI	none	Score	86
Exons	181..267, 210..269, 275..355, 302..355, 387..545, 392..544, 648..749, 650..715		

Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109835	Strand	-
Start	1	End	1143
Name	OJ991106_38.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	230	End	719
GI	none	Score	40
Exons	230..292, 231..266, 304..354, 305..355, 378..488, 389..487, 488..547, 494..550, 495..563, 651..719, 677..715		

Seq. No.	51912	Seq. ID	OJ991106_38.0419.C8
Gene No.	109835	Strand	-
Start	1	End	1143
Name	OJ991106_38.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	237	End	734
GI	none	Score	35
Exons	237..263, 301..354, 302..355, 371..487, 372..488, 495..554, 497..550, 654..734, 656..715		

Seq. No.	51913	Seq. ID	OJ991106_38.0419.C9
Gene No.	109836	Strand	-
Start	159	End	5732
Name	OJ991106_38.0419.C9.o1.gs	Method	GENSCAN
Start	159	End	5732
GI	none	Score	.6
Exons	159..317, 340..421, 1366..1523, 2147..2167, 3029..3180, 5143..5334, 5597..5732		

Seq. No.	51914	Seq. ID	OJ991106_38.0419.C10
Gene No.	109837	Strand	+
Start	135	End	1873
Name	OJ991106_38.0419.C10.o1.gs	Method	GENSCAN
Start	135	End	1873
GI	none	Score	.74
Exons	135..325, 693..793, 912..1063, 1679..1873		

Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1296
GI	6016696	Score	368
Exons	1..27, 363..432, 469..1296		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	4	End	333
GI	none	Score	179

Exons	4..42, 5..313, 97..333		
Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o1.gs	Method	GENSCAN
Start	17	End	1824
GI	none	Score	.54
Exons	17..1392, 1804..1824		
Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	136	End	531
GI	none	Score	136
Exons	136..327, 137..313, 436..531		
Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	430	End	832
GI	none	Score	96
Exons	430..636, 464..727, 670..831, 671..832		
Seq. No.	51915	Seq. ID	OJ991106_38.0419.C13
Gene No.	109838	Strand	-
Start	1	End	1824
Name	OJ991106_38.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	1099	End	1353
GI	none	Score	141
Exons	1099..1353, 1100..1210, 1195..1260, 1226..1282, 1234..1287		
Seq. No.	51916	Seq. ID	OJ991106_38.0419.C15
Gene No.	109839	Strand	+
Start	676	End	1585
Name	OJ991106_38.0419.C15.o1.np	Method	AAT/NAP
Start	676	End	1585
GI	7340881	Score	315
Exons	676..762, 909..1032, 1122..1207, 1275..1585		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		
Seq. No.	51916	Seq. ID	OJ991106_38.0419.C15
Gene No.	109839	Strand	+
Start	676	End	1585
Name	OJ991106_38.0419.C15.o1.gs	Method	GENSCAN
Start	909	End	1570
GI	none	Score	.87
Exons	909..1032, 1122..1214, 1258..1570		
Seq. No.	51917	Seq. ID	OJ991106_38.0419.C16
Gene No.	109840	Strand	-
Start	495	End	1069
Name	OJ991106_38.0419.C16.o1.gs	Method	GENSCAN
Start	495	End	1069
GI	none	Score	.55

Exons	495..655, 1012..1069		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109841	Strand	+
Start	121	End	411
Name	OJ991106_38.0419.C17.o1.gs	Method	GENSCAN
Start	121	End	411
GI	none	Score	.87
Exons	121..411		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o2.gs	Method	GENSCAN
Start	932	End	2810
GI	none	Score	.72
Exons	932..1781, 1885..2044, 2173..2385, 2714..2810		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o1.np	Method	AAT/NAP
Start	935	End	2036
GI	1717794	Score	1262
Exons	935..1781, 1885..2036		
GI Descrip.	SEX DETERMINATION PROTEIN TASSELSEED 2 gi\|539065\|pir\|\|A47542 short-chain alcohol dehydrogenase (EC 1.1.1.-) - maize gi\|393184 (L20621) alcohol dehydrogenase [Zea mays]		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	944	End	1783
GI	none	Score	112
Exons	944..1114, 945..1100, 1187..1516, 1203..1493, 1511..1783		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	947	End	1783
GI	none	Score	94
Exons	947..1123, 960..1091, 1184..1489, 1185..1553, 1487..1621, 1508..1624, 1676..1783, 1685..1780, 1692..1781		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	965	End	1361
GI	none	Score	67
Exons	965..1120, 966..1112, 1209..1361, 1214..1330		
Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810

Name	OJ991106_38.0419.C17.o1.gp	Method	AAT/GAP
Start	1375	End	2057
GI	13220_1.R1084	Score	1078
Exons	1375..1781, 1885..2057		
GI Descrip.	'1877480 8.0e-50 (U89270) short-chain alcohol dehydrogenase [Tripsacum dactyloides]'		

Seq. No.	51918	Seq. ID	OJ991106_38.0419.C17
Gene No.	109842	Strand	-
Start	932	End	2810
Name	OJ991106_38.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	1388	End	1796
GI	none	Score	64
Exons	1388..1492, 1398..1493, 1517..1618, 1679..1783, 1686..1796		

Seq. No.	51919	Seq. ID	OJ991106_38.0419.C18
Gene No.	109843	Strand	+
Start	439	End	1247
Name	OJ991106_38.0419.C18.o1.gs	Method	GENSCAN
Start	439	End	1247
GI	none	Score	.6
Exons	439..519, 1119..1247		

Seq. No.	51919	Seq. ID	OJ991106_38.0419.C18
Gene No.	109844	Strand	+
Start	3075	End	3504
Name	OJ991106_38.0419.C18.o2.gs	Method	GENSCAN
Start	3075	End	3504
GI	none	Score	.69
Exons	3075..3201, 3482..3504		

Seq. No.	51920	Seq. ID	OJ991106_38.0419.C20
Gene No.	109845	Strand	+
Start	1082	End	2506
Name	OJ991106_38.0419.C20.o2.gs	Method	GENSCAN
Start	1082	End	2261
GI	none	Score	.83
Exons	1082..1362, 1513..1557, 1972..2261		

Seq. No.	51920	Seq. ID	OJ991106_38.0419.C20
Gene No.	109845	Strand	+
Start	1082	End	2506
Name	OJ991106_38.0419.C20.o2.gp	Method	AAT/GAP
Start	2135	End	2506
GI	383_2.R1084	Score	232
Exons	2135..2262, 2484..2506		
GI Descrip.	'421960/pir\|\|S34448 9.0e-63 small nuclear ribonucleoprotein U2B'''' - potato >gi_169589 (M72892) spliceosomal protein [Solanum tuberosum]'		

Seq. No.	51920	Seq. ID	OJ991106_38.0419.C20
Gene No.	109845	Strand	+
Start	1082	End	2506
Name	OJ991106_38.0419.C20.o1.np	Method	AAT/NAP
Start	2186	End	2506
GI	421960	Score	78
Exons	2186..2261, 2482..2506		

GI Descrip.	small nuclear ribonucleoprotein U2B'' - potato gi\|169589\|gb\|AAA33847.1\| (M72892) spliceosomal protein [Solanum tuberosum]		
Seq. No.	51920	Seq. ID	OJ991106_38.0419.C20
Gene No.	109846	Strand	-
Start	109	End	599
Name	OJ991106_38.0419.C20.o1.gp	Method	AAT/GAP
Start	109	End	599
GI	none	Score	934
Exons	109..599		
Seq. No.	51921	Seq. ID	OJ991106_38.0419.C21
Gene No.	109847	Strand	-
Start	346	End	3418
Name	OJ991106_38.0419.C21.o1.gs	Method	GENSCAN
Start	346	End	3418
GI	none	Score	.47
Exons	346..482, 1297..1390, 1735..1902, 3341..3418		
Seq. No.	51921	Seq. ID	OJ991106_38.0419.C21
Gene No.	109847	Strand	-
Start	346	End	3418
Name	OJ991106_38.0419.C21.o1.np	Method	AAT/NAP
Start	390	End	546
GI	7363271	Score	129
Exons	390..546		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		
Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o1.np	Method	AAT/NAP
Start	522	End	3766
GI	7447845	Score	1586
Exons	522..578, 1301..1368, 1479..1595, 1894..1956, 2364..2468, 2546..2596, 2771..3090, 3191..3397, 3476..3766		
GI Descrip.	hypothetical protein T16L1.170 - Arabidopsis thaliana gi\|3549670\|emb\|CAA20581.1\| (AL031394) putative protein [Arabidopsis thaliana] gi\|7270317\|emb\|CAB80085.1\| (AL161584) putative protein [Arabidopsis thaliana]		
Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o1.gs	Method	GENSCAN
Start	782	End	4573
GI	none	Score	.75
Exons	782..861, 958..1018, 1086..1264, 1266..1368, 1479..1595, 1894..1956, 2364..2468, 2546..2596, 2788..3090, 3191..3397, 3476..3694, 4427..4573		
Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o1.gp	Method	AAT/GAP
Start	1301	End	1520

GI	uC-osroM202018h12b1	Score	203
Exons	1301..1368, 1479..1520		
GI Descrip.	'3549670/emb\|CAA20581.1\| 1.0e-35 (AL031394) putative protein [Arabidopsis thaliana]'		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o2.gp	Method	AAT/GAP
Start	1301	End	1579
GI	uC-osroM202018h12b1	Score	282
Exons	1301..1368, 1479..1579		
GI Descrip.	'3549670/emb\|CAA20581.1\| 1.0e-35 (AL031394) putative protein [Arabidopsis thaliana]'		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o3.gp	Method	AAT/GAP
Start	2412	End	3043
GI	2427873	Score	548
Exons	2412..2468, 2546..2596, 2771..3043		
GI Descrip.	3549670/emb\|CAA20581.1\| 1.0e-35 (AL031394) putative protein [Arabidopsis thaliana]		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109848	Strand	+
Start	522	End	4573
Name	OJ991106_38.0419.C22.o4.gp	Method	AAT/GAP
Start	3051	End	4027
GI	13733_1.R1084	Score	1378
Exons	3051..3090, 3191..3397, 3476..4027		
GI Descrip.	'3549670/emb\|CAA20581.1\| 3.0e-66 (AL031394) putative protein [Arabidopsis thaliana]'		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109849	Strand	-
Start	5522	End	6868
Name	OJ991106_38.0419.C22.o2.gs	Method	GENSCAN
Start	5522	End	6868
GI	none	Score	.99
Exons	5522..6868		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109849	Strand	-
Start	5522	End	6868
Name	OJ991106_38.0419.C22.o2.np	Method	AAT/NAP
Start	5525	End	6862
GI	7486854	Score	1805
Exons	5525..6862		
GI Descrip.	hypothetical protein T10P11.20 - Arabidopsis thaliana gi\|3892054\|gb\|AAC78266.1\|AAC78266 (AC002330) putative glycosyltransferase [Arabidopsis thaliana] gi\|7269010\|emb\|CAB80743.1\| (AL161494) putative glycosyltransferase [Arabidopsis thaliana]		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22

Gene No.	109850	Strand	-
Start	6885	End	7168
Name	OJ991106_38.0419.C22.o5.gp	Method	AAT/GAP
Start	6885	End	7168
GI	none	Score	453
Exons	6885..7168		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1300	End	3770
GI	none	Score	94
Exons	1300..1371, 1476..1595, 1476..1589, 1478..1594, 1891..1956, 2367..2474, 2394..2471, 2534..2596, 2551..2595, 2743..2811, 2771..2821, 2797..3093, 2820..3092, 2822..3109, 3190..3393, 3191..3397, 3470..3769, 3473..3769, 3567..3770		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	1300	End	2417
GI	none	Score	114
Exons	1300..1371, 1302..1367, 1476..1595, 1477..1596, 1478..1612, 1478..1591, 1891..1956, 1892..1960, 2361..2417, 2361..2414		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o4.tc	Method	TBLASTX:Cress
Start	1303	End	1610
GI	none	Score	101
Exons	1303..1371, 1306..1371, 1476..1595, 1478..1603, 1478..1594, 1512..1610		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2419	End	3789
GI	none	Score	90
Exons	2419..2469, 2421..2474, 2426..2473, 2534..2596, 2539..2613, 2723..2821, 2771..2821, 2820..3092, 2820..3092, 2821..3093, 3189..3350, 3190..3351, 3191..3358, 3361..3396, 3362..3397, 3364..3399, 3470..3787, 3473..3772, 3697..3789, 3703..3789		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o3.tc	Method	TBLASTX:Cress
Start	2818	End	3104
GI	none	Score	417
Exons	2818..3090, 2820..3092, 2821..3093, 2823..3104		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-

Start	8024	End	9102
Name	OJ991106_38.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	5518	End	5992
GI	none	Score	405
Exons	5518..5973, 5519..5980, 5519..5992, 5616..5987		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o2.tc	Method	TBLASTX:Cress
Start	5564	End	5914
GI	none	Score	242
Exons	5564..5914, 5613..5909		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	5564	End	6374
GI	none	Score	343
Exons	5564..6181, 5585..6169, 5631..6182, 6170..6373, 6171..6374		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	5678	End	6045
GI	none	Score	376
Exons	5678..6040, 5679..6041, 5683..6045		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	5916	End	6415
GI	none	Score	200
Exons	5916..6125, 5931..6230, 5933..6415, 5942..6241, 6285..6407		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o4.ts	Method	TBLASTX:Soybean
Start	5993	End	6148
GI	none	Score	121
Exons	5993..6148, 5994..6110		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o3.ts	Method	TBLASTX:Soybean
Start	6149	End	6550
GI	none	Score	164
Exons	6149..6202, 6209..6475, 6210..6491, 6467..6544, 6476..6550		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102

Name	OJ991106_38.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	6410	End	6859
GI	none	Score	95
Exons	6410..6478, 6410..6487, 6417..6533, 6473..6550, 6479..6544, 6647..6859, 6648..6743, 6686..6805		

Seq. No.	51922	Seq. ID	OJ991106_38.0419.C22
Gene No.	109851	Strand	-
Start	8024	End	9102
Name	OJ991106_38.0419.C22.o3.gs	Method	GENSCAN
Start	8024	End	9102
GI	none	Score	.71
Exons	8024..8153, 8431..8687, 8720..8864, 9026..9102		

Seq. No.	51923	Seq. ID	OJ991106_38.0419.C23
Gene No.	109852	Strand	+
Start	1	End	247
Name	OJ991106_38.0419.C23.o1.gp	Method	AAT/GAP
Start	1	End	247
GI	none	Score	494
Exons	1..247		

Seq. No.	51923	Seq. ID	OJ991106_38.0419.C23
Gene No.	109853	Strand	+
Start	307	End	501
Name	OJ991106_38.0419.C23.o1.gs	Method	GENSCAN
Start	307	End	501
GI	none	Score	.79
Exons	307..501		

Seq. No.	51923	Seq. ID	OJ991106_38.0419.C23
Gene No.	109854	Strand	-
Start	1067	End	3458
Name	OJ991106_38.0419.C23.o1.np	Method	AAT/NAP
Start	1067	End	3458
GI	7488433	Score	610
Exons	1067..1222, 1804..1918, 2104..2174, 2265..2438, 2494..2592, 2680..2768, 3324..3458		
GI Descrip.	zinc finger protein homolog T10M13.22 - Arabidopsis thaliana gi\|3377805\|gb\|AAC28178.1\| (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] gi\|3912928\|gb\|AAC78712.1\| (AF001308) putative zinc finger protein [Arabidopsis thaliana] gi\|7268982\|emb\|CAB80715.1\| (AL161494) putati		

Seq. No.	51923	Seq. ID	OJ991106_38.0419.C23
Gene No.	109854	Strand	-
Start	1067	End	3458
Name	OJ991106_38.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	1133	End	3424
GI	none	Score	74
Exons	1133..1234, 1134..1220, 1135..1263, 1139..1231, 1801..1920, 1802..1924, 1802..1924, 2095..2175, 2103..2180, 2103..2174, 2265..2423, 2266..2424, 2500..2595, 2501..2596, 2501..2617, 2675..2770, 2676..2759, 2680..2769, 2729..2770, 3301..3414, 3315..3416, 3324..3413, 3326..3424		

Seq. No.	51923	Seq. ID	OJ991106_38.0419.C23
Gene No.	109854	Strand	-
Start	1067	End	3458
Name	OJ991106_38.0419.C23.o2.gp	Method	AAT/GAP
Start	2247	End	3434
GI	LIB3431-021-P1-K1-B10	Score	787
Exons	2247..2422, 2499..2592, 2680..2768, 3324..3434		
GI Descrip.	'3377805 1.0e-39 (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] >gi_3912928_gb_AAC78712.1_ (AF001308) putative zinc finger protein [Arabidopsis thaliana]'		

Seq. No.	51924	Seq. ID	OJ991106_38.0419.C24
Gene No.	109855	Strand	+
Start	441	End	800
Name	OJ991106_38.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	260	End	800
GI	none	Score	129
Exons	260..346, 274..339, 435..500, 540..578, 551..589, 666..722, 724..795, 738..800	438..488, 440..499, 540..590, 677..724, 722..793, 722..799,	

Seq. No.	51924	Seq. ID	OJ991106_38.0419.C24
Gene No.	109855	Strand	+
Start	441	End	800
Name	OJ991106_38.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	260	End	800
GI	none	Score	102
Exons	260..346, 274..339, 435..488, 666..800	438..488, 540..590, 665..799,	

Seq. No.	51924	Seq. ID	OJ991106_38.0419.C24
Gene No.	109855	Strand	+
Start	441	End	800
Name	OJ991106_38.0419.C24.o1.gs	Method	GENSCAN
Start	441	End	793
GI	none	Score	.93
Exons	441..590, 678..793		

Seq. No.	51925	Seq. ID	OJ991106_38.0419.C25
Gene No.	109856	Strand	+
Start	322	End	1777
Name	OJ991106_38.0419.C25.o1.gs	Method	GENSCAN
Start	322	End	1777
GI	none	Score	.8
Exons	322..430, 1446..1520, 1616..1777		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109857	Strand	+
Start	1	End	706
Name	OJ991106_38.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	444
GI	7442203	Score	366
Exons	1..93, 153..444		
GI Descrip.	pathogenesis-related protein - sorghum gi\|1408222\|gb\|AAC12661.1\|		

(U60764) pathogenesis-related protein [Sorghum bicolor]

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109857	Strand	+
Start	1	End	706
Name	OJ991106_38.0419.C26.o1.gp	Method	AAT/GAP
Start	149	End	706
GI	22910_1.R1084	Score	1075
Exons	149..706		
GI Descrip.	'1408222/gb\|AAC12661.1\| 6.0e-49 (U60764) pathogenesis-related protein [Sorghum bicolor]'		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109857	Strand	+
Start	1	End	706
Name	OJ991106_38.0419.C26.o1.gs	Method	GENSCAN
Start	153	End	447
GI	none	Score	.96
Exons	153..447		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o2.tm	Method	TBLASTX:Maize
Start	146	End	452
GI	none	Score	147
Exons	146..244, 151..249, 154..243, 249..449, 250..447, 255..452		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o3.tw	Method	TBLASTX:Wheat
Start	246	End	452
GI	none	Score	299
Exons	246..443, 250..447, 321..452		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o2.np	Method	AAT/NAP
Start	1193	End	3734
GI	6714449	Score	1020
Exons	1193..1241, 2463..3734		
GI Descrip.	(AC011620) putative pectinesterase [Arabidopsis thaliana]		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o2.tw	Method	TBLASTX:Wheat
Start	2451	End	2822
GI	none	Score	319
Exons	2451..2822, 2479..2802		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o2.gs	Method	GENSCAN

Start	2469	End	3637
GI	none	Score	.46
Exons	2469..3095, 3104..3637		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	2502	End	3730
GI	none	Score	300
Exons	2502..3059, 2503..3006, 3071..3442, 3078..3437, 3461..3523, 3638..3730		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	2505	End	3587
GI	none	Score	328
Exons	2505..2573, 2598..3065, 2611..3057, 3060..3182, 3068..3442, 3110..3256, 3240..3440, 3461..3505, 3528..3587		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	2550	End	3730
GI	none	Score	275
Exons	2550..3062, 2611..3057, 3060..3176, 3071..3442, 3240..3443, 3470..3535, 3638..3730		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o4.tw	Method	TBLASTX:Wheat
Start	2827	End	3033
GI	none	Score	178
Exons	2827..3033, 2829..3032, 2836..3033		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	3036	End	3485
GI	none	Score	379
Exons	3036..3065, 3071..3484, 3072..3485		

Seq. No.	51926	Seq. ID	OJ991106_38.0419.C26
Gene No.	109858	Strand	-
Start	1193	End	3734
Name	OJ991106_38.0419.C26.o3.tm	Method	TBLASTX:Maize
Start	3587	End	3734
GI	none	Score	157
Exons	3587..3733, 3588..3734		

Seq. No.	51927	Seq. ID	OJ991106_38.0419.C27
Gene No.	109859	Strand	+

Start	294	End	828
Name	OJ991106_38.0419.C27.o1.gs	Method	GENSCAN
Start	294	End	828
GI	none	Score	.5
Exons	294..390, 537..645, 747..828		

Seq. No.	51927	Seq. ID	OJ991106_38.0419.C27
Gene No.	109860	Strand	-
Start	3241	End	4612
Name	OJ991106_38.0419.C27.o2.gs	Method	GENSCAN
Start	3241	End	4612
GI	none	Score	.44
Exons	3241..3309, 3357..3377, 4268..4612		

Seq. No.	51928	Seq. ID	OJ991106_38.0419.C28
Gene No.	109861	Strand	-
Start	1	End	2782
Name	OJ991106_38.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	801
GI	5354_1.R1084	Score	844
Exons	1..27, 169..239, 325..403, 523..801		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51928	Seq. ID	OJ991106_38.0419.C28
Gene No.	109861	Strand	-
Start	1	End	2782
Name	OJ991106_38.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	168	End	603
GI	none	Score	118
Exons	168..278, 169..276, 208..279, 284..370, 312..377, 313..378, 315..377, 319..420, 338..409, 339..413, 340..414, 523..603, 523..588		

Seq. No.	51928	Seq. ID	OJ991106_38.0419.C28
Gene No.	109861	Strand	-
Start	1	End	2782
Name	OJ991106_38.0419.C28.o1.gs	Method	GENSCAN
Start	169	End	2782
GI	none	Score	.63
Exons	169..239, 325..403, 523..786, 2136..2203, 2626..2782		

Seq. No.	51928	Seq. ID	OJ991106_38.0419.C28
Gene No.	109861	Strand	-
Start	1	End	2782
Name	OJ991106_38.0419.C28.o1.np	Method	AAT/NAP
Start	372	End	1128
GI	6523547	Score	119
Exons	372..1128		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	51929	Seq. ID	OJ991106_38.0419.C29
Gene No.	109862	Strand	-
Start	47	End	2921
Name	OJ991106_38.0419.C29.o1.gs	Method	GENSCAN
Start	47	End	1087

GI	none	Score	.99
Exons	47..808, 992..1087		

Seq. No.	51929	Seq. ID	OJ991106_38.0419.C29
Gene No.	109862	Strand	-
Start	47	End	2921
Name	OJ991106_38.0419.C29.o3.np	Method	AAT/NAP
Start	641	End	2762
GI	6907088	Score	541
Exons	641..743, 2212..2449, 2625..2762		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51929	Seq. ID	OJ991106_38.0419.C29
Gene No.	109862	Strand	-
Start	47	End	2921
Name	OJ991106_38.0419.C29.o1.gp	Method	AAT/GAP
Start	1794	End	1952
GI	5667165	Score	260
Exons	1794..1952		
GI Descrip.	5670155/gb\|AF161269.1\|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	51929	Seq. ID	OJ991106_38.0419.C29
Gene No.	109862	Strand	-
Start	47	End	2921
Name	OJ991106_38.0419.C29.o2.np	Method	AAT/NAP
Start	1953	End	2921
GI	6069659	Score	98
Exons	1953..2077, 2871..2921		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	51930	Seq. ID	OJ991206_10.0419.C1
Gene No.	109863	Strand	-
Start	349	End	575
Name	OJ991206_10.0419.C1.o1.gs	Method	GENSCAN
Start	349	End	575
GI	none	Score	.66
Exons	349..453, 573..575		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109864	Strand	+
Start	2425	End	3515
Name	OJ991206_10.0419.C3.o1.gs	Method	GENSCAN
Start	2425	End	3515
GI	none	Score	.82
Exons	2425..2607, 3017..3136, 3366..3478, 3507..3515		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109865	Strand	+
Start	4473	End	5770
Name	OJ991206_10.0419.C3.o1.gp	Method	AAT/GAP
Start	4325	End	5239
GI	33839_1.R1084	Score	1002
Exons	4325..4711, 4977..5062, 5184..5239		
GI Descrip.	'4220472 5.0e-48 (AC006069) similar to yeast ccc1 protein [Arabidopsis thaliana]'		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109865	Strand	+
Start	4473	End	5770
Name	OJ991206_10.0419.C3.o1.np	Method	AAT/NAP
Start	4452	End	5764
GI	4220472	Score	801
Exons	4452..4711, 4977..5062, 5184..5298, 5470..5764		
GI Descrip.	(AC006069) putative membrane protein [Arabidopsis thaliana]		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109865	Strand	+
Start	4473	End	5770
Name	OJ991206_10.0419.C3.o2.gs	Method	GENSCAN
Start	4473	End	5770
GI	none	Score	.97
Exons	4473..4711, 4977..5062, 5184..5298, 5470..5770		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109866	Strand	-
Start	5652	End	6084
Name	OJ991206_10.0419.C3.o2.gp	Method	AAT/GAP
Start	5652	End	6084
GI	none	Score	822
Exons	5652..6084		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109867	Strand	-
Start	7632	End	8078
Name	OJ991206_10.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	4479	End	5058
GI	none	Score	349
Exons	4479..4712, 4541..4714, 4984..5058		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109867	Strand	-
Start	7632	End	8078
Name	OJ991206_10.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	4497	End	5296
GI	none	Score	297
Exons	4497..4712, 4541..4711, 4984..5061, 5182..5295, 5183..5296		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109867	Strand	-
Start	7632	End	8078
Name	OJ991206_10.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	5172	End	5704
GI	none	Score	194
Exons	5172..5300, 5182..5307, 5183..5299, 5468..5704, 5470..5694		

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109867	Strand	-
Start	7632	End	8078
Name	OJ991206_10.0419.C3.o2.np	Method	AAT/NAP
Start	7080	End	7689
GI	6721559	Score	275
Exons	7080..7215, 7242..7689		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	51931	Seq. ID	OJ991206_10.0419.C3
Gene No.	109867	Strand	-
Start	7632	End	8078
Name	OJ991206_10.0419.C3.o3.gs	Method	GENSCAN
Start	7632	End	8078
GI	none	Score	.99
Exons	7632..8078		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109868	Strand	+
Start	882	End	8679
Name	OJ991206_10.0419.C4.o1.gs	Method	GENSCAN
Start	882	End	6784
GI	none	Score	.49
Exons	882..946, 1614..1737, 2366..2557, 2600..2833, 3548..3780, 4057..4502, 4572..4736, 4974..5209, 5300..5831, 5880..6784		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109868	Strand	+
Start	882	End	8679
Name	OJ991206_10.0419.C4.o1.np	Method	AAT/NAP
Start	3548	End	8679
GI	4680179	Score	4887
Exons	3548..6767, 8628..8679		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4		
Gene No.	109868	Strand	+		
Start	882	End	8679		
Name	OJ991206_10.0419.C4.o1.gp	Method	AAT/GAP		
Start	6685	End	6992		
GI	61605_3.R1084	Score	435		
Exons	6685..6992				
GI Descrip.	'1402920/emb	CAA66965	2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	3812	End	4168
GI	none	Score	271
Exons	3812..4168, 3934..4167		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	4049	End	4345
GI	none	Score	208
Exons	4049..4345, 4049..4333, 4066..4236		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-

Start	7360	End	8679
Name	OJ991206_10.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	4720	End	5101
GI	none	Score	130
Exons	4720..4833, 4721..4894, 4919..5101, 4945..5100		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	5264	End	5746
GI	none	Score	517
Exons	5264..5746, 5368..5703		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	5291	End	5614
GI	none	Score	182
Exons	5291..5614		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	5333	End	5767
GI	none	Score	343
Exons	5333..5767		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	5687	End	6058
GI	none	Score	57
Exons	5687..5719, 5723..5767, 5724..5768, 5807..6058, 5815..6057		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	5784	End	6073
GI	none	Score	54
Exons	5784..5852, 5808..5852, 5810..6073, 5812..6072		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	5807	End	6145
GI	none	Score	303
Exons	5807..6145, 5860..6144		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679

Name	OJ991206_10.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	6074	End	6583
GI	none	Score	572
Exons	6074..6583, 6106..6417, 6152..6484, 6460..6492		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	6146	End	6504
GI	none	Score	444
Exons	6146..6496, 6148..6414, 6199..6504, 6454..6492		

Seq. No.	51932	Seq. ID	OJ991206_10.0419.C4
Gene No.	109869	Strand	-
Start	7360	End	8679
Name	OJ991206_10.0419.C4.o2.np	Method	AAT/NAP
Start	7360	End	8679
GI	6063554	Score	262
Exons	7360..7534, 8174..8210, 8516..8679		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109870	Strand	+
Start	1	End	2284
Name	OJ991206_10.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	2281
GI	4680179	Score	2204
Exons	1..46, 922..2281		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109870	Strand	+
Start	1	End	2284
Name	OJ991206_10.0419.C5.o1.gs	Method	GENSCAN
Start	1083	End	2284
GI	none	Score	.6
Exons	1083..1333, 1378..1744, 1790..2284		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109871	Strand	+
Start	2592	End	10180
Name	OJ991206_10.0419.C5.o2.gs	Method	GENSCAN
Start	2592	End	10180
GI	none	Score	.57
Exons	2592..2697, 4507..4718, 5170..5460, 7725..7939, 9288..9443, 9476..9578, 9999..10180		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	906	End	1271
GI	none	Score	421
Exons	906..1271, 921..1238, 1160..1270		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1059	End	1319
GI	none	Score	271
Exons	1059..1319, 1125..1223, 1181..1318		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	1119	End	1405
GI	none	Score	352
Exons	1119..1391, 1119..1388, 1160..1405		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1278	End	1903
GI	none	Score	122
Exons	1278..1409, 1280..1414, 1393..1683, 1394..1903, 1421..1714, 1774..1902		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1457	End	2056
GI	none	Score	212
Exons	1457..1618, 1459..1611, 1616..2056, 1618..1677, 1783..2043		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	1904	End	2271
GI	none	Score	290
Exons	1904..2170, 1931..2011, 1996..2118, 2218..2271		

Seq. No.	51933	Seq. ID	OJ991206_10.0419.C5
Gene No.	109872	Strand	-
Start	2547	End	3179
Name	OJ991206_10.0419.C5.o2.np	Method	AAT/NAP
Start	2547	End	3179
GI	6721559	Score	218
Exons	2547..2682, 2709..3179		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi\|6815084\|dbj\|BAA90370.1\| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	51934	Seq. ID	OJ991206_10.0419.C6
Gene No.	109873	Strand	+
Start	1432	End	1645
Name	OJ991206_10.0419.C6.o1.gs	Method	GENSCAN

Start	1432	End	1645
GI	none	Score	.94
Exons	1432..1645		

Seq. No.	51935	Seq. ID	OJ991206_10.0419.C7
Gene No.	109874	Strand	+
Start	92	End	156
Name	OJ991206_10.0419.C7.o1.gs	Method	GENSCAN
Start	92	End	156
GI	none	Score	.82
Exons	92..156		

Seq. No.	51935	Seq. ID	OJ991206_10.0419.C7
Gene No.	109875	Strand	-
Start	1817	End	1914
Name	OJ991206_10.0419.C7.o2.gs	Method	GENSCAN
Start	1817	End	1914
GI	none	Score	.87
Exons	1817..1914		

Seq. No.	51936	Seq. ID	OJ991206_10.0419.C8
Gene No.	109876	Strand	+
Start	384	End	1141
Name	OJ991206_10.0419.C8.o1.gs	Method	GENSCAN
Start	384	End	1141
GI	none	Score	.89
Exons	384..409, 1084..1141		

Seq. No.	51937	Seq. ID	OJ991206_10.0419.C10
Gene No.	109877	Strand	+
Start	378	End	5163
Name	OJ991206_10.0419.C10.o1.gs	Method	GENSCAN
Start	378	End	5163
GI	none	Score	.84
Exons	378..497, 574..698, 777..965, 1040..1171, 2196..2303, 3518..3659, 5054..5163		

Seq. No.	51938	Seq. ID	OJ991206_10.0419.C11
Gene No.	109878	Strand	-
Start	1909	End	2112
Name	OJ991206_10.0419.C11.o2.gs	Method	GENSCAN
Start	1909	End	2112
GI	none	Score	.81
Exons	1909..1917, 2038..2112		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o1.gs	Method	GENSCAN
Start	83	End	3548
GI	none	Score	.58
Exons	83..267, 417..475, 515..634, 1392..1648, 1800..2030, 2499..2552, 2719..2904, 3312..3548		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548

Name	OJ991206_10.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	1340	End	3041
GI	none	Score	38
Exons	1340..1372, 1369..1647, 1372..1647, 1373..1684, 1794..1904, 1799..1900, 1979..2029, 1980..2030, 2716..2946, 2718..2936, 3021..3041		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	1381	End	1627
GI	none	Score	282
Exons	1381..1596, 1382..1627		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o1.np	Method	AAT/NAP
Start	1382	End	2955
GI	6730656	Score	406
Exons	1382..1648, 1845..1971, 2152..2350, 2391..2955		
GI Descrip.	(AC007945) F28C11.6 [Arabidopsis thaliana]		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1409	End	2951
GI	none	Score	259
Exons	1409..1651, 1415..1570, 1417..1626, 1727..1765, 1764..1904, 1805..1900, 1980..2030, 1988..2029, 2716..2946, 2716..2931, 2718..2948, 2718..2951		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	1788	End	2960
GI	none	Score	64
Exons	1788..1835, 1805..1906, 1833..1907, 1977..2030, 2716..2958, 2717..2926, 2718..2960		

Seq. No.	51939	Seq. ID	OJ991206_10.0419.C12
Gene No.	109879	Strand	+
Start	83	End	3548
Name	OJ991206_10.0419.C12.o1.gp	Method	AAT/GAP
Start	1804	End	3140
GI	11503_1.R1084	Score	859
Exons	1804..1904, 1983..2030, 2719..3140		
GI Descrip.	'6093660/sp\|O73944\|PCP_PYRFU 1.0e-09 PYRROLIDONE-CARBOXYLATE PEPTIDASE (5-OXOPROLYL-PEPTIDASE) (PYROGLUTAMYL-PEPTIDASE I) (PGP-I) (PYRASE) >gi_3551425_dbj_BAA32989_ (AB015291) pyrrolidone carboxyl peptidase [Pyrococcus furiosus]'		

Seq. No.	51940	Seq. ID	OJ991206_10.0419.C17
Gene No.	109880	Strand	+

Start	426	End	656
Name	OJ991206_10.0419.C17.o1.gs	Method	GENSCAN
Start	426	End	656
GI	none	Score	.45
Exons	426..538, 571..656		

Seq. No.	51940	Seq. ID	OJ991206_10.0419.C17
Gene No.	109881	Strand	-
Start	1304	End	1666
Name	OJ991206_10.0419.C17.o2.gs	Method	GENSCAN
Start	1304	End	1666
GI	none	Score	.67
Exons	1304..1666		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109882	Strand	+
Start	4322	End	4846
Name	OJ991206_10.0419.C19.o1.gp	Method	AAT/GAP
Start	4322	End	4846
GI	none	Score	909
Exons	4322..4846		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109883	Strand	+
Start	4991	End	7976
Name	OJ991206_10.0419.C19.o1.np	Method	AAT/NAP
Start	4991	End	7844
GI	6553894	Score	3207
Exons	4991..5154, 5195..7048, 7190..7463, 7560..7844		
GI Descrip.	(AC012563) putative trehalose-6-phosphate synthase [Arabidopsis thaliana]		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109883	Strand	+
Start	4991	End	7976
Name	OJ991206_10.0419.C19.o2.gp	Method	AAT/GAP
Start	7574	End	7976
GI	LIB3431-016-P1-K1-D9	Score	785
Exons	7574..7976		
GI Descrip.	'2245136/emb\|CAB10557.1\| 6.0e-26 (Z97344) trehalose-6-phosphate synthase like protein [Arabidopsis thaliana]'		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	5205	End	7394
GI	none	Score	53
Exons	5205..5288, 5355..5537, 5652..5894, 5660..5890, 5922..6068, 6057..6434, 6071..6199, 6307..6426, 6525..6722, 6527..6649, 7242..7394		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	5250	End	5795

GI	none	Score	38
Exons	5250..5297, 5352..5549, 5372..5548, 5561..5794, 5562..5795		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	5501	End	6500
GI	none	Score	88
Exons	5501..5545, 5502..5558, 5552..5617, 5553..5624, 5625..6068, 5663..6100, 6054..6500, 6066..6494, 6068..6499		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	5796	End	7691
GI	none	Score	2007
Exons	5796..7049, 5813..7048, 6820..7050, 7188..7463, 7190..7468, 7208..7462, 7555..7599, 7556..7609, 7557..7610, 7619..7681, 7620..7691		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	6398	End	6740
GI	none	Score	58
Exons	6398..6445, 6399..6446, 6449..6739, 6459..6740		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o4.tc	Method	TBLASTX:Cress
Start	6438	End	6965
GI	none	Score	88
Exons	6438..6524, 6479..6523, 6722..6964, 6723..6965		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	6501	End	7661
GI	none	Score	717
Exons	6501..7049, 6501..6869, 6503..7048, 7176..7421, 7188..7463, 7208..7459, 7274..7465, 7557..7661, 7559..7645		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	6972	End	7463
GI	none	Score	67
Exons	6972..7046, 7200..7463, 7206..7442, 7208..7459		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-

Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	7394	End	7874
GI	none	Score	98
Exons	7394..7462, 7395..7463, 7556..7744, 7557..7751, 7715..7873, 7743..7874		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.gs	Method	GENSCAN
Start	10231	End	15546
GI	none	Score	.72
Exons	10231..10883, 10923..11020, 11144..11339, 11551..11610, 11711..11770, 12689..12842, 13925..14013, 14484..14651, 14671..14900, 14939..15279, 15412..15546		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o5.tc	Method	TBLASTX:Cress
Start	10231	End	10404
GI	none	Score	95
Exons	10231..10305, 10233..10310, 10241..10306, 10318..10398, 10318..10404		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.np	Method	AAT/NAP
Start	10234	End	12801
GI	7485435	Score	985
Exons	10234..10491, 10519..11065, 11144..11339, 12749..12801		
GI Descrip.	hypothetical protein F13M22.22 - Arabidopsis thaliana gi\|3236254\|gb\|AAC23642.1\| (AC004684) unknown protein [Arabidopsis thaliana]		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	10294	End	10752
GI	none	Score	37
Exons	10294..10320, 10295..10318, 10324..10644, 10325..10645, 10642..10752, 10644..10745, 10645..10752		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o3.tc	Method	TBLASTX:Cress
Start	10429	End	10743
GI	none	Score	167
Exons	10429..10743, 10430..10666		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496

Name	OJ991206_10.0419.C19.o3.ts	Method	TBLASTX:Soybean
Start	10723	End	10965
GI	none	Score	163
Exons	10723..10965, 10733..10957, 10825..10965		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o4.tm	Method	TBLASTX:Maize
Start	10753	End	11184
GI	none	Score	251
Exons	10753..11067, 10754..11038, 11143..11184		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o5.tm	Method	TBLASTX:Maize
Start	11191	End	11340
GI	none	Score	107
Exons	11191..11340, 11192..11326		

Seq. No.	51941	Seq. ID	OJ991206_10.0419.C19
Gene No.	109884	Strand	-
Start	10231	End	16496
Name	OJ991206_10.0419.C19.o3.np	Method	AAT/NAP
Start	13756	End	16496
GI	7106508	Score	88
Exons	13756..13845, 15448..15552, 15685..16064, 16467..16496		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109885	Strand	+
Start	317	End	11308
Name	OJ991206_10.0419.C20.o1.gs	Method	GENSCAN
Start	317	End	11192
GI	none	Score	.56
Exons	317..456, 892..1241, 1835..2208, 2303..2416, 3044..3154, 4048..4206, 4214..4482, 4587..4659, 4701..4736, 5093..5213, 5254..5281, 5504..5662, 6194..6257, 6625..6690, 6993..7062, 7138..7242, 7772..7913, 8275..8371, 8871..9342, 9877..9954, 10906..11192		

Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109885	Strand	+
Start	317	End	11308
Name	OJ991206_10.0419.C20.o1.gp	Method	AAT/GAP
Start	1177	End	1472
GI	2442185	Score	568
Exons	1177..1472		

Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109885	Strand	+
Start	317	End	11308
Name	OJ991206_10.0419.C20.o1.np	Method	AAT/NAP
Start	4189	End	11308
GI	4220489	Score	1473
Exons	4189..4213, 4296..4482, 4587..4659, 5096..5213, 5331..5404,		

	5526..5662, 6194..6257, 6625..6690, 6993..7062, 7138..7242, 7772..7913, 8275..8371, 8871..9114, 9147..9346, 11262..11308		
GI Descrip.	(AC006069) putative cleavage and polyadenylation specifity factor [Arabidopsis thaliana]		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109886	Strand	-
Start	2178	End	2459
Name	OJ991206_10.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	1999	End	2326
GI	none	Score	303
Exons	1999..2325, 2003..2326		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109886	Strand	-
Start	2178	End	2459
Name	OJ991206_10.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	2098	End	2329
GI	none	Score	254
Exons	2098..2325, 2099..2329		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109886	Strand	-
Start	2178	End	2459
Name	OJ991206_10.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	2140	End	2325
GI	none	Score	75
Exons	2140..2325, 2150..2314		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109886	Strand	-
Start	2178	End	2459
Name	OJ991206_10.0419.C20.o2.gp	Method	AAT/GAP
Start	2178	End	2459
GI	568582	Score	348
Exons	2178..2375, 2437..2459		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109887	Strand	
Start	2939	End	4644
Name	OJ991206_10.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	2939	End	4644
GI	none	Score	117
Exons	2939..3043, 2949..3056, 4295..4336, 4328..4423, 4442..4480, 4588..4644		
Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109888	Strand	
Start	5102	End	7860
Name	OJ991206_10.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	5102	End	7860
GI	none	Score	39
Exons	5102..5212, 5104..5211, 5105..5212, 5328..5405, 5329..5406, 5329..5406, 5330..5407, 5525..5662, 5526..5663, 5531..5665, 6186..6257, 6194..6250, 6615..6695, 6625..6696, 6960..7073, 6966..7064, 7130..7237, 7137..7256, 7137..7232, 7142..7255, 7770..7853, 7771..7860		

Seq. No.	51942	Seq. ID	OJ991206_10.0419.C20
Gene No.	109889	Strand	
Start	7866	End	9152
Name	OJ991206_10.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	7866	End	9152
GI	none	Score	47
Exons	7866..7892, 7867..7890, 7891..7917, 7893..7919, 8274..8333, 8275..8334, 8276..8341, 8339..8374, 8342..8389, 8868..9152, 8868..9152		

Seq. No.	51943	Seq. ID	OJ991206_10.0419.C21
Gene No.	109890	Strand	+
Start	2838	End	3294
Name	OJ991206_10.0419.C21.o2.gs	Method	GENSCAN
Start	2838	End	3294
GI	none	Score	.93
Exons	2838..2994, 3062..3294		

Seq. No.	51943	Seq. ID	OJ991206_10.0419.C21
Gene No.	109891	Strand	-
Start	9	End	2282
Name	OJ991206_10.0419.C21.o1.gs	Method	GENSCAN
Start	9	End	2282
GI	none	Score	.59
Exons	9..138, 2259..2282		

Seq. No.	51943	Seq. ID	OJ991206_10.0419.C21
Gene No.	109892	Strand	-
Start	2774	End	3475
Name	OJ991206_10.0419.C21.o1.np	Method	AAT/NAP
Start	2774	End	3475
GI	6069646	Score	787
Exons	2774..2863, 2893..3475		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51943	Seq. ID	OJ991206_10.0419.C21
Gene No.	109892	Strand	-
Start	2774	End	3475
Name	OJ991206_10.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2863	End	3375
GI	none	Score	61
Exons	2863..2973, 3055..3375, 3056..3256		

Seq. No.	51943	Seq. ID	OJ991206_10.0419.C21
Gene No.	109892	Strand	-
Start	2774	End	3475
Name	OJ991206_10.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	2929	End	3264
GI	none	Score	169
Exons	2929..2964, 3085..3264		

Seq. No.	51944	Seq. ID	OJ991206_10.0419.C22

Gene No.	109893	Strand	+
Start	101	End	768
Name	OJ991206_10.0419.C22.o1.gs	Method	GENSCAN
Start	101	End	768
GI	none	Score	.71
Exons	101..270, 618..768		

Seq. No.	51944	Seq. ID	OJ991206_10.0419.C22
Gene No.	109894	Strand	-
Start	1	End	432
Name	OJ991206_10.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	432
GI	6069646	Score	131
Exons	1..28, 242..432		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51944	Seq. ID	OJ991206_10.0419.C22
Gene No.	109895	Strand	-
Start	1599	End	4644
Name	OJ991206_10.0419.C22.o2.gs	Method	GENSCAN
Start	1599	End	4644
GI	none	Score	.59
Exons	1599..1743, 1981..2201, 4399..4644		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109896	Strand	+
Start	1	End	1903
Name	OJ991206_10.0419.C23.o3.np	Method	AAT/NAP
Start	1	End	1903
GI	6006372	Score	112
Exons	1..167, 255..472, 1779..1903		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109896	Strand	+
Start	1	End	1903
Name	OJ991206_10.0419.C23.o1.gs	Method	GENSCAN
Start	246	End	1718
GI	none	Score	.72
Exons	246..1045, 1186..1250, 1274..1473, 1572..1718		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109896	Strand	+
Start	1	End	1903
Name	OJ991206_10.0419.C23.o1.np	Method	AAT/NAP
Start	552	End	1698
GI	3928543	Score	492
Exons	552..1019, 1182..1698		
GI Descrip.	(AB016819) UDP-glucose glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109896	Strand	+

Start	1	End	1903
Name	OJ991206_10.0419.C23.o1.gp	Method	AAT/GAP
Start	853	End	1403
GI	uC-osroM202038c04b1	Score	653
Exons	853..1021, 1184..1403		
GI Descrip.	'3928543/dbj\|BAA34687\| 2.0e-33 (AB016819) UDP-glucose glucosyltransferase [Arabidopsis thaliana]'		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109897	Strand	-
Start	1905	End	3642
Name	OJ991206_10.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	558	End	3642
GI	none	Score	145
Exons	558..698, 560..700, 831..1019, 1179..1373, 1184..1369, 1372..1449, 1489..1581, 1498..1584, 1587..1637, 3589..3642		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109897	Strand	-
Start	1905	End	3642
Name	OJ991206_10.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	570	End	1637
GI	none	Score	122
Exons	570..695, 578..700, 855..1019, 1185..1373, 1372..1449, 1498..1587, 1587..1637		

Seq. No.	51945	Seq. ID	OJ991206_10.0419.C23
Gene No.	109897	Strand	-
Start	1905	End	3642
Name	OJ991206_10.0419.C23.o4.np	Method	AAT/NAP
Start	1905	End	2623
GI	5777617	Score	78
Exons	1905..2131, 2540..2623		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	51946	Seq. ID	OJ991206_10.0419.C24
Gene No.	109898	Strand	-
Start	2018	End	4458
Name	OJ991206_10.0419.C24.o1.gs	Method	GENSCAN
Start	2018	End	4458
GI	none	Score	.68
Exons	2018..2129, 2860..3019, 3050..3176, 4059..4189, 4326..4458		

Seq. No.	51947	Seq. ID	OJ991206_10.0419.C25
Gene No.	109899	Strand	+
Start	6688	End	6882
Name	OJ991206_10.0419.C25.o2.gs	Method	GENSCAN
Start	6688	End	6882
GI	none	Score	.44
Exons	6688..6882		

Seq. No.	51947	Seq. ID	OJ991206_10.0419.C25
Gene No.	109900	Strand	+
Start	8827	End	10810
Name	OJ991206_10.0419.C25.o3.gs	Method	GENSCAN
Start	8827	End	10810
GI	none	Score	.49

Exons	8827..9041, 9747..9839, 10693..10810		
Seq. No.	51948	Seq. ID	OJ991206_10.0419.C26
Gene No.	109901	Strand	-
Start	81	End	222
Name	OJ991206_10.0419.C26.o1.gs	Method	GENSCAN
Start	81	End	222
GI	none	Score	.94
Exons	81..222		
Seq. No.	51949	Seq. ID	OJ991206_10.0419.C27
Gene No.	109902	Strand	-
Start	293	End	660
Name	OJ991206_10.0419.C27.o1.gs	Method	GENSCAN
Start	293	End	660
GI	none	Score	.78
Exons	293..508, 514..660		
Seq. No.	51950	Seq. ID	OJ991206_10.0419.C33
Gene No.	109903	Strand	-
Start	179	End	764
Name	OJ991206_10.0419.C33.o1.gs	Method	GENSCAN
Start	179	End	764
GI	none	Score	.74
Exons	179..275, 514..585, 641..764		
Seq. No.	51951	Seq. ID	OJ991206_10.0419.C35
Gene No.	109904	Strand	-
Start	841	End	1638
Name	OJ991206_10.0419.C35.o1.gs	Method	GENSCAN
Start	841	End	1638
GI	none	Score	.54
Exons	841..936, 1039..1209, 1603..1638		
Seq. No.	51952	Seq. ID	OJ991116_10.0419.C1
Gene No.	109905	Strand	-
Start	268	End	902
Name	OJ991116_10.0419.C1.o1.gs	Method	GENSCAN
Start	268	End	902
GI	none	Score	.6
Exons	268..353, 440..510, 736..902		
Seq. No.	51953	Seq. ID	OJ991116_10.0419.C2
Gene No.	109906	Strand	-
Start	445	End	1503
Name	OJ991116_10.0419.C2.o1.gs	Method	GENSCAN
Start	445	End	1503
GI	none	Score	.87
Exons	445..572, 798..894, 1010..1232, 1360..1503		
Seq. No.	51954	Seq. ID	OJ991116_10.0419.C3
Gene No.	109907	Strand	-
Start	1	End	2367
Name	OJ991116_10.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2367
GI	7106515	Score	1796
Exons	1..1624, 1706..2048, 2318..2367		

GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		
Seq. No.	51954	Seq. ID	OJ991116_10.0419.C3
Gene No.	109907	Strand	-
Start	1	End	2367
Name	OJ991116_10.0419.C3.o1.gs	Method	GENSCAN
Start	101	End	1366
GI	none	Score	.74
Exons	101..1366		
Seq. No.	51954	Seq. ID	OJ991116_10.0419.C3
Gene No.	109907	Strand	-
Start	1	End	2367
Name	OJ991116_10.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	209	End	529
GI	none	Score	37
Exons	209..283, 210..284, 302..529, 303..527		
Seq. No.	51954	Seq. ID	OJ991116_10.0419.C3
Gene No.	109907	Strand	-
Start	1	End	2367
Name	OJ991116_10.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	746	End	1198
GI	none	Score	162
Exons	746..802, 836..1072, 948..1178, 1106..1198		
Seq. No.	51955	Seq. ID	OJ991116_10.0419.C6
Gene No.	109908	Strand	-
Start	638	End	898
Name	OJ991116_10.0419.C6.o1.gp	Method	AAT/GAP
Start	638	End	898
GI	70939_1.R1084	Score	476
Exons	638..898		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	51956	Seq. ID	OJ991116_10.0419.C7
Gene No.	109909	Strand	-
Start	1	End	814
Name	OJ991116_10.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	814
GI	7487695	Score	203
Exons	1..183, 520..814		
GI Descrip.	hypothetical protein T5I7.4 - Arabidopsis thaliana gi\|2642156\|gb\|AAB87123.1\| (AC003000) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	51956	Seq. ID	OJ991116_10.0419.C7
Gene No.	109909	Strand	-
Start	1	End	814
Name	OJ991116_10.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	8	End	593
GI	none	Score	197
Exons	8..169, 11..172, 519..593		

Seq. No.	51956	Seq. ID	OJ991116_10.0419.C7
Gene No.	109909	Strand	-
Start	1	End	814
Name	OJ991116_10.0419.C7.o1.gs	Method	GENSCAN
Start	22	End	681
GI	none	Score	.65
Exons	22..183, 520..681		

Seq. No.	51957	Seq. ID	OJ991116_10.0419.C9
Gene No.	109910	Strand	+
Start	1	End	896
Name	OJ991116_10.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	896
GI	7106515	Score	776
Exons	1..896		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	51957	Seq. ID	OJ991116_10.0419.C9
Gene No.	109910	Strand	+
Start	1	End	896
Name	OJ991116_10.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	7	End	744
GI	none	Score	321
Exons	7..465, 393..461, 502..744		

Seq. No.	51957	Seq. ID	OJ991116_10.0419.C9
Gene No.	109910	Strand	+
Start	1	End	896
Name	OJ991116_10.0419.C9.o1.gs	Method	GENSCAN
Start	145	End	747
GI	none	Score	.65
Exons	145..364, 398..580, 626..747		

Seq. No.	51957	Seq. ID	OJ991116_10.0419.C9
Gene No.	109910	Strand	+
Start	1	End	896
Name	OJ991116_10.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	586	End	890
GI	none	Score	96
Exons	586..744, 741..881, 746..880, 870..890		

Seq. No.	51957	Seq. ID	OJ991116_10.0419.C9
Gene No.	109910	Strand	+
Start	1	End	896
Name	OJ991116_10.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	747	End	893
GI	none	Score	196
Exons	747..893, 764..886		

Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	991
GI	7487755	Score	731

Exons	1..991		
GI Descrip.	hypothetical protein T6H20.180 - Arabidopsis thaliana gi\|5541680\|emb\|CAB51186.1\| (AL096859) putative protein [Arabidopsis thaliana]		
Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	15	End	692
GI	none	Score	65
Exons	15..161, 16..150, 155..220, 162..332, 165..356, 166..357, 180..368, 222..359, 223..357, 357..437, 360..560, 375..569, 582..665, 633..692		
Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	33	End	438
GI	none	Score	73
Exons	33..161, 34..150, 166..438, 168..419		
Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.gs	Method	GENSCAN
Start	123	End	680
GI	none	Score	.41
Exons	123..680		
Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	132	End	701
GI	none	Score	82
Exons	132..164, 168..347, 186..305, 190..345, 358..570, 375..560, 585..701		
Seq. No.	51958	Seq. ID	OJ991116_10.0419.C10
Gene No.	109911	Strand	-
Start	1	End	991
Name	OJ991116_10.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	165	End	708
GI	none	Score	44
Exons	165..269, 186..359, 267..359, 274..321, 351..548, 369..572, 406..576, 571..702, 573..701, 613..708		
Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109912	Strand	+
Start	1	End	2929
Name	OJ991116_10.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1478
GI	7228438	Score	156
Exons	1..217, 1451..1478		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the		

predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]

Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109912	Strand	+
Start	1	End	2929
Name	OJ991116_10.0419.C11.o2.np	Method	AAT/NAP
Start	1	End	2575
GI	5852180	Score	328
Exons	1..32, 1118..1195, 2206..2575		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109912	Strand	+
Start	1	End	2929
Name	OJ991116_10.0419.C11.o1.gs	Method	GENSCAN
Start	83	End	2929
GI	none	Score	.84
Exons	83..217, 303..444, 1349..1508, 2325..2637, 2666..2929		

Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109912	Strand	+
Start	1	End	2929
Name	OJ991116_10.0419.C11.o1.gp	Method	AAT/GAP
Start	580	End	836
GI	61605_3.R1084	Score	448
Exons	580..836		
GI Descrip.	'1402920/emb\|CAA66965\| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109913	Strand	-
Start	1364	End	1793
Name	OJ991116_10.0419.C11.o2.gp	Method	AAT/GAP
Start	1364	End	1793
GI	2428185	Score	801
Exons	1364..1793		
GI Descrip.	5852170/emb\|AL117265.1\|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51959	Seq. ID	OJ991116_10.0419.C11
Gene No.	109914	Strand	-
Start	1811	End	2545
Name	OJ991116_10.0419.C11.o3.gp	Method	AAT/GAP
Start	1811	End	2545
GI	101153_1.R1084	Score	576
Exons	1811..2039, 2356..2545		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51960	Seq. ID	OJ991116_10.0419.C12
Gene No.	109915	Strand	+
Start	440	End	1260
Name	OJ991116_10.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	435	End	1258
GI	none	Score	86
Exons	435..557, 440..559, 442..558, 525..617, 545..646, 550..609,		

611..646, 634..945, 774..947, 776..946, 1176..1256, 1178..1258, 1178..1258

Seq. No.	51960	Seq. ID	OJ991116_10.0419.C12
Gene No.	109915	Strand	+
Start	440	End	1260
Name	OJ991116_10.0419.C12.o1.gs	Method	GENSCAN
Start	440	End	1255
GI	none	Score	.64
Exons	440..663, 728..943, 1181..1255		

Seq. No.	51960	Seq. ID	OJ991116_10.0419.C12
Gene No.	109915	Strand	+
Start	440	End	1260
Name	OJ991116_10.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	775	End	972
GI	none	Score	75
Exons	775..945, 775..849, 776..955, 889..972		

Seq. No.	51960	Seq. ID	OJ991116_10.0419.C12
Gene No.	109915	Strand	+
Start	440	End	1260
Name	OJ991116_10.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	792	End	1258
GI	none	Score	195
Exons	792..944, 793..945, 794..946, 797..946, 1158..1256, 1178..1258, 1178..1258		

Seq. No.	51960	Seq. ID	OJ991116_10.0419.C12
Gene No.	109915	Strand	+
Start	440	End	1260
Name	OJ991116_10.0419.C12.o1.gp	Method	AAT/GAP
Start	879	End	1260
GI	uC-osf1cyp021g03b1	Score	235
Exons	879..943, 1181..1260		
GI Descrip.	'2239179/emb\|CAB10099.1\| 2.0e-24 (Z97208) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	51961	Seq. ID	OJ991116_10.0419.C16
Gene No.	109916	Strand	-
Start	1	End	750
Name	OJ991116_10.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	674
GI	7076801	Score	135
Exons	1..60, 582..674		
GI Descrip.	(AL132975) Regulator of chromosome condensation-like protein [Arabidopsis thaliana]		

Seq. No.	51961	Seq. ID	OJ991116_10.0419.C16
Gene No.	109916	Strand	-
Start	1	End	750
Name	OJ991116_10.0419.C16.o1.gs	Method	GENSCAN
Start	17	End	750
GI	none	Score	.8
Exons	17..60, 582..672, 715..750		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18

Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	77	End	342
GI	none	Score	75
Exons	77..142, 78..134, 111..296, 140..292, 292..342, 303..341		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.np	Method	AAT/NAP
Start	78	End	1080
GI	1352681	Score	552
Exons	78..407, 533..638, 732..882, 966..1080		
GI Descrip.	PROTEIN PHOSPHATASE 2C (PP2C) gi\|1076391\|pir\|\|S55457 phosphoprotein phosphatase (EC 3.1.3.16) 2C - Arabidopsis thaliana gi\|633028\|dbj\|BAA07287\| (D38109) protein phosphatase 2C [Arabidopsis thaliana] gi\|6006880\|gb\|AAF00655.1\|AC008153_7 (AC008153) protein phosphatase 2C (PP2C) [Arabidopsis thaliana]		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.gp	Method	AAT/GAP
Start	78	End	374
GI	uC-osrocyp034f02a1	Score	547
Exons	78..374		
GI Descrip.	'1352681/sp\|P49598\|P2C4_ARATH 4.0e-17 PROTEIN PHOSPHATASE 2C (PP2C) >gi_1076391_pir__S55457 phosphoprotein phosphatase (EC 3.1.3.16) 2C - Arabidopsis thaliana >gi_633028_dbj_BAA07287_ (D38109) protein phosphatase 2C [Arabidopsis thaliana] >gi_6006880_gb_AAF00655.1_AC008153_7 (AC008153) protein phosphatase 2C (PP2C) [Arabidopsis thaliana]'		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.gs	Method	GENSCAN
Start	102	End	1044
GI	none	Score	.85
Exons	102..407, 473..638, 732..1044		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	159	End	1080
GI	none	Score	54
Exons	159..215, 279..407, 344..400, 530..643, 568..642, 730..882, 731..895, 995..1078, 1009..1080		

Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	288	End	1080
GI	none	Score	70

Exons	288..407, 530..643, 571..642, 730..882, 731..901, 994..1080, 995..1078		
Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	344	End	928
GI	none	Score	91
Exons	344..406, 345..407, 530..643, 530..691, 730..882, 731..928, 804..890		
Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	344	End	890
GI	none	Score	100
Exons	344..406, 345..407, 507..635, 530..643, 530..634, 565..642, 730..882, 731..889, 731..883, 804..890		
Seq. No.	51962	Seq. ID	OJ991116_10.0419.C18
Gene No.	109917	Strand	+
Start	78	End	1080
Name	OJ991116_10.0419.C18.o2.gp	Method	AAT/GAP
Start	581	End	1080
GI	76129_1.R1084	Score	777
Exons	581..638, 732..1080		
GI Descrip.	'1352681/sp\|P49598\|P2C4_ARATH 2.0e-28 PROTEIN PHOSPHATASE 2C (PP2C) >gi_1076391_pir__S55457 phosphoprotein phosphatase (EC 3.1.3.16) 2C - Arabidopsis thaliana >gi_633028_dbj_BAA07287_ (D38109) protein phosphatase 2C [Arabidopsis thaliana] >gi_6006880_gb_AAF00655.1_AC008153_7 (AC008153) protein phosphatase 2C (PP2C) [Arabidopsis thaliana]'		
Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1441
GI	7446487	Score	81
Exons	1..40, 389..518, 869..1022, 1245..1441		
GI Descrip.	proline rich protein homolog WCOR518 - wheat (fragment) gi\|1657851\|gb\|AAB18205.1\| (U73214) cold acclimation protein WCOR518 [Triticum aestivum]		
Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.gs	Method	GENSCAN
Start	37	End	180
GI	none	Score	.99
Exons	37..180		
Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441

Name	OJ991116_10.0419.C23.o2.gs	Method	GENSCAN
Start	391	End	1336
GI	none	Score	.89
Exons	391..581, 761..864, 902..1065, 1137..1336		

Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.gp	Method	AAT/GAP
Start	1055	End	1371
GI	7319_2.R1084	Score	521
Exons	1055..1371		
GI Descrip.	'2081612/dbj\|BAA19916\| 2.0e-32 (D49714) deltal-pyrroline-5-carboxylate synthetase [Oryza sativa]'		

Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1178	End	1334
GI	none	Score	196
Exons	1178..1294, 1203..1334		

Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	1178	End	1338
GI	none	Score	228
Exons	1178..1300, 1203..1334, 1300..1338		

Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	1178	End	1338
GI	none	Score	214
Exons	1178..1300, 1203..1334, 1300..1338		

Seq. No.	51963	Seq. ID	OJ991116_10.0419.C23
Gene No.	109918	Strand	+
Start	1	End	1441
Name	OJ991116_10.0419.C23.o2.np	Method	AAT/NAP
Start	1179	End	1441
GI	7340678	Score	208
Exons	1179..1441		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109919	Strand	+
Start	1	End	1113
Name	OJ991116_10.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	648
GI	7340678	Score	338
Exons	1..106, 200..288, 404..474, 547..648		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109919	Strand	+
Start	1	End	1113
Name	OJ991116_10.0419.C24.o1.gs	Method	GENSCAN
Start	90	End	921
GI	none	Score	.51
Exons	90..106, 158..288, 848..921		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109919	Strand	+
Start	1	End	1113
Name	OJ991116_10.0419.C24.o1.gp	Method	AAT/GAP
Start	603	End	1113
GI	none	Score	830
Exons	603..673, 750..1113		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	4	End	661
GI	none	Score	80
Exons	4..90, 5..100, 18..104, 161..283, 201..284, 201..284, 202..324, 385..465, 396..458, 535..651, 540..650, 548..661		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	8	End	651
GI	none	Score	136
Exons	8..106, 18..104, 161..283, 201..284, 201..284, 400..465, 405..455, 529..651, 540..647		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	1180	End	1977
GI	none	Score	93
Exons	1180..1224, 1512..1691, 1517..1708, 1517..1702, 1837..1977, 1838..1975		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o2.gs	Method	GENSCAN
Start	1186	End	2500
GI	none	Score	.72
Exons	1186..1269, 1607..1747, 1837..2091, 2203..2290, 2424..2500		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o2.np	Method	AAT/NAP
Start	1189	End	2548
GI	4895205	Score	707

Exons	1189..1320, 1458..1747, 1837..2109, 2203..2290, 2424..2548		
GI Descrip.	(AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	1503	End	2536
GI	none	Score	54
Exons	1503..1583, 1513..1644, 1517..1660, 1517..1741, 1629..1703, 1828..2073, 1837..2073, 1838..2074, 2203..2292, 2242..2289, 2415..2501, 2420..2536		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1595	End	2501
GI	none	Score	132
Exons	1595..1732, 1595..1747, 1629..1754, 1837..2109, 1838..2104, 1971..2111, 2200..2241, 2208..2234, 2248..2292, 2252..2293, 2424..2501, 2424..2492, 2429..2500		

Seq. No.	51964	Seq. ID	OJ991116_10.0419.C24
Gene No.	109920	Strand	-
Start	1186	End	2548
Name	OJ991116_10.0419.C24.o2.gp	Method	AAT/GAP
Start	2030	End	2501
GI	44355_1.R1084	Score	414
Exons	2030..2109, 2203..2290, 2424..2501		
GI Descrip.	'3236259 3.0e-31 (AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana] >gi_4895207_gb_AAD32794.1_AC007661_31 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	51965	Seq. ID	OJ991116_10.0419.C25
Gene No.	109921	Strand	+
Start	426	End	573
Name	OJ991116_10.0419.C25.o1.gs	Method	GENSCAN
Start	426	End	573
GI	none	Score	.48
Exons	426..573		

Seq. No.	51966	Seq. ID	OJ991116_10.0419.C28
Gene No.	109922	Strand	+
Start	37	End	1683
Name	OJ991116_10.0419.C28.o1.gs	Method	GENSCAN
Start	37	End	476
GI	none	Score	.66
Exons	37..93, 312..476		

Seq. No.	51966	Seq. ID	OJ991116_10.0419.C28
Gene No.	109922	Strand	+
Start	37	End	1683
Name	OJ991116_10.0419.C28.o1.np	Method	AAT/NAP
Start	120	End	1683
GI	7340680	Score	219

Exons	120..249, 1371..1503, 1661..1683		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		
Seq. No.	51966	Seq. ID	OJ991116_10.0419.C28
Gene No.	109923	Strand	-
Start	909	End	1589
Name	OJ991116_10.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	114	End	1589
GI	none	Score	87
Exons	114..203, 134..199, 1365..1589, 1366..1506		
Seq. No.	51966	Seq. ID	OJ991116_10.0419.C28
Gene No.	109923	Strand	-
Start	909	End	1589
Name	OJ991116_10.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	120	End	1508
GI	none	Score	78
Exons	120..203, 224..247, 1364..1474, 1365..1508, 1366..1506		
Seq. No.	51966	Seq. ID	OJ991116_10.0419.C28
Gene No.	109923	Strand	-
Start	909	End	1589
Name	OJ991116_10.0419.C28.o2.gs	Method	GENSCAN
Start	909	End	989
GI	none	Score	.67
Exons	909..989		
Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.gp	Method	AAT/GAP
Start	642	End	2553
GI	19519_1.R1084	Score	2144
Exons	642..1471, 1547..1786, 1877..1939, 2427..2553		
GI Descrip.	'4103324 1.0e-166 (AF022716) GDP-mannose pyrophosphorylase [Solanum tuberosum]'		
Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	787	End	1094
GI	none	Score	265
Exons	787..1032, 792..1091, 800..1093, 801..1094		
Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	795	End	1060
GI	none	Score	87
Exons	795..854, 798..1058, 800..925, 800..1060, 802..1059, 974..1060		
Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.tc	Method	TBLASTX:Cress

Start	799	End	2541
GI	none	Score	138
Exons	799..1026, 800..1471, 906..1487, 1541..1786, 1542..1787, 1609..1788, 1874..1942, 1875..1940, 2423..2536, 2424..2537, 2424..2537, 2434..2541		

Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.gs	Method	GENSCAN
Start	800	End	2537
GI	none	Score	.99
Exons	800..1471, 1547..1786, 1877..1939, 2427..2537		

Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.np	Method	AAT/NAP
Start	803	End	2537
GI	4103324	Score	1567
Exons	803..1471, 1547..1786, 1877..1939, 2427..2537		
GI Descrip.	(AF022716) GDP-mannose pyrophosphorylase [Solanum tuberosum]		

Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	1061	End	2560
GI	none	Score	412
Exons	1061..1471, 1062..1520, 1333..1473, 1541..1786, 1542..1787, 1705..1788, 1860..1919, 1874..1942, 1875..1940, 2395..2541, 2423..2560, 2424..2540, 2428..2559		

Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	1094	End	2564
GI	none	Score	454
Exons	1094..1489, 1095..1493, 1519..1593, 1541..1786, 1542..1787, 1582..1788, 1866..1940, 1874..1975, 1874..1942, 2424..2564, 2431..2541		

Seq. No.	51967	Seq. ID	OJ991116_10.0419.C29
Gene No.	109924	Strand	-
Start	800	End	2564
Name	OJ991116_10.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	1451	End	1754
GI	none	Score	135
Exons	1451..1489, 1526..1750, 1541..1747, 1542..1754, 1546..1749		

Seq. No.	51968	Seq. ID	OJ991116_10.0419.C36
Gene No.	109925	Strand	+
Start	129	End	1551
Name	OJ991116_10.0419.C36.o1.np	Method	AAT/NAP
Start	129	End	1551
GI	7489687	Score	540

Exons	129..245, 543..618, 1062..1212, 1354..1421, 1515..1551		
GI Descrip.	probable pyrroline-5-carboxylate synthetase (EC 1.5.1.-) - wheat (fragment) gi\|2522193\|gb\|AAB80946.1\| (AF022914) pyrroline-5-carboxylate synthetase [Triticum aestivum]		
Seq. No.	51968	Seq. ID	OJ991116_10.0419.C36
Gene No.	109925	Strand	+
Start	129	End	1551
Name	OJ991116_10.0419.C36.o1.gs	Method	GENSCAN
Start	142	End	1212
GI	none	Score	.9
Exons	142..245, 543..618, 1062..1212		
Seq. No.	51968	Seq. ID	OJ991116_10.0419.C36
Gene No.	109926	Strand	+
Start	1501	End	1571
Name	OJ991116_10.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	127	End	1569
GI	none	Score	132
Exons	127..246, 141..254, 141..248, 489..626, 541..618, 542..619, 1047..1211, 1061..1210, 1090..1236, 1325..1369, 1368..1421, 1369..1419, 1495..1566, 1510..1569, 1512..1568		
Seq. No.	51968	Seq. ID	OJ991116_10.0419.C36
Gene No.	109926	Strand	+
Start	1501	End	1571
Name	OJ991116_10.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	170	End	1569
GI	none	Score	111
Exons	170..247, 171..254, 177..254, 534..620, 542..625, 1058..1210, 1058..1210, 1081..1212, 1108..1212, 1334..1369, 1369..1449, 1382..1420, 1510..1569, 1512..1568		
Seq. No.	51968	Seq. ID	OJ991116_10.0419.C36
Gene No.	109926	Strand	+
Start	1501	End	1571
Name	OJ991116_10.0419.C36.o1.gp	Method	AAT/GAP
Start	1501	End	1571
GI	428854	Score	114
Exons	1501..1571		
GI Descrip.	2081612/dbj\|BAA19916\| 2.0e-32 (D49714) deltal-pyrroline-5-carboxylate synthetase [Oryza sativa]		
Seq. No.	51969	Seq. ID	OJ991116_10.0419.C40
Gene No.	109927	Strand	+
Start	708	End	924
Name	OJ991116_10.0419.C40.o1.np	Method	AAT/NAP
Start	708	End	924
GI	4895205	Score	72
Exons	708..784, 903..924		
GI Descrip.	(AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]		
Seq. No.	51969	Seq. ID	OJ991116_10.0419.C40
Gene No.	109927	Strand	+
Start	708	End	924
Name	OJ991116_10.0419.C40.o1.gp	Method	AAT/GAP
Start	793	End	924

GI	57518_1.R1084	Score	264
Exons	793..924		
GI Descrip.	'3236259 8.0e-53 (AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana] >gi_4895207_gb_AAD32794.1_AC007661_31 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	51970	Seq. ID	OJ991116_10.0419.C54
Gene No.	109928	Strand	+
Start	148	End	351
Name	OJ991116_10.0419.C54.o1.gs	Method	GENSCAN
Start	148	End	351
GI	none	Score	.45
Exons	148..351		

Seq. No.	51971	Seq. ID	OJ991116_10.0419.C61
Gene No.	109929	Strand	-
Start	1	End	704
Name	OJ991116_10.0419.C61.o1.np	Method	AAT/NAP
Start	1	End	694
GI	7485989	Score	402
Exons	1..694		
GI Descrip.	hypothetical protein F22O13.27 - Arabidopsis thaliana gi\|3063465\|gb\|AAC14053.1\| (AC003981) F22O13.27 [Arabidopsis thaliana]		

Seq. No.	51971	Seq. ID	OJ991116_10.0419.C61
Gene No.	109929	Strand	-
Start	1	End	704
Name	OJ991116_10.0419.C61.o1.gs	Method	GENSCAN
Start	47	End	694
GI	none	Score	.88
Exons	47..694		

Seq. No.	51971	Seq. ID	OJ991116_10.0419.C61
Gene No.	109929	Strand	-
Start	1	End	704
Name	OJ991116_10.0419.C61.o1.tc	Method	TBLASTX:Cress
Start	343	End	704
GI	none	Score	117
Exons	343..516, 416..697, 420..704		

Seq. No.	51971	Seq. ID	OJ991116_10.0419.C61
Gene No.	109929	Strand	-
Start	1	End	704
Name	OJ991116_10.0419.C61.o1.ts	Method	TBLASTX:Soybean
Start	434	End	694
GI	none	Score	68
Exons	434..562, 435..557, 578..694		

Seq. No.	51971	Seq. ID	OJ991116_10.0419.C61
Gene No.	109929	Strand	-
Start	1	End	704
Name	OJ991116_10.0419.C61.o1.tm	Method	TBLASTX:Maize
Start	515	End	695
GI	none	Score	85
Exons	515..694, 519..695		

Seq. No.	51972	Seq. ID	OJ991116_10.0419.C63
Gene No.	109930	Strand	-
Start	150	End	305
Name	OJ991116_10.0419.C63.o1.gs	Method	GENSCAN
Start	150	End	305
GI	none	Score	.62
Exons	150..215, 300..305		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109931	Strand	+
Start	882	End	1100
Name	OJ991116_10.0419.C67.o1.gs	Method	GENSCAN
Start	882	End	1100
GI	none	Score	.46
Exons	882..1100		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.gp	Method	AAT/GAP
Start	561	End	1137
GI	28094_2.R1084	Score	1124
Exons	561..1137		
GI Descrip.	'3075394 5.0e-35 (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis thaliana] >gi_3559809_emb_CAA09311_ (AJ010713) fiddlehead protein [Arabidopsis thaliana]'		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.np	Method	AAT/NAP
Start	830	End	1137
GI	7484963	Score	300
Exons	830..1137		
GI Descrip.	fatty acid elongase 1 - Arabidopsis thaliana gi\|881615\|gb\|AAA70154.1\| (U29142) fatty acid elongase 1 [Arabidopsis thaliana] gi\|3096921\|emb\|CAA18831.1\| (AL023094) fatty acid elongase 1 [Arabidopsis thaliana] gi\|7270402\|emb\|CAB80169.1\| (AL161585) fatty acid elongase 1 [Arabidopsis thaliana]		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	838	End	1136
GI	none	Score	56
Exons	838..909, 872..913, 873..1136, 968..1135		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	863	End	1132
GI	none	Score	144
Exons	863..913, 968..1132, 975..1115		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	968	End	1136
GI	none	Score	58
Exons	968..1135, 974..1063, 975..1136		

Seq. No.	51973	Seq. ID	OJ991116_10.0419.C67
Gene No.	109932	Strand	-
Start	561	End	1137
Name	OJ991116_10.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	968	End	1096
GI	none	Score	75
Exons	968..1096, 974..1063, 975..1091		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109933	Strand	+
Start	1	End	1124
Name	OJ991116_10.0419.C68.o2.np	Method	AAT/NAP
Start	1	End	1124
GI	6630697	Score	90
Exons	1..42, 338..437, 653..783, 816..877, 1002..1124		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109933	Strand	+
Start	1	End	1124
Name	OJ991116_10.0419.C68.o1.gs	Method	GENSCAN
Start	119	End	486
GI	none	Score	.46
Exons	119..486		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o1.gp	Method	AAT/GAP
Start	1	End	432
GI	28094_1.R1084	Score	827
Exons	1..432		
GI Descrip.	'3075394 0.0e+00 (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis thaliana] >gi_3559809_emb_CAA09311_ (AJ010713) fiddlehead protein [Arabidopsis thaliana]'		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o1.np	Method	AAT/NAP
Start	1	End	1845
GI	3075394	Score	505
Exons	1..432, 1824..1845		
GI Descrip.	(AC004484) beta-ketoacyl-CoA synthase (FIDDLEHEAD) [Arabidopsis thaliana] gi\|3559809\|emb\|CAA09311\| (AJ010713) fiddlehead protein [Arabidopsis thaliana]		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68

Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o1.tm	Method	TBLASTX:Maize
Start	1	End	448
GI	none	Score	84
Exons	1..438, 2..58, 110..433, 112..444, 341..448		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o1.tc	Method	TBLASTX:Cress
Start	16	End	435
GI	none	Score	39
Exons	16..288, 26..55, 110..280, 304..435, 326..433		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o1.ts	Method	TBLASTX:Soybean
Start	16	End	448
GI	none	Score	253
Exons	16..447, 110..448		

Seq. No.	51974	Seq. ID	OJ991116_10.0419.C68
Gene No.	109934	Strand	-
Start	1	End	1845
Name	OJ991116_10.0419.C68.o2.gp	Method	AAT/GAP
Start	853	End	1155
GI	4878571	Score	574
Exons	853..1155		
GI Descrip.	5679837/emb\|AJ243961.1\|OSA243961 1.0e-19 Oryza sativa chromosome 4 BAC 11332 genomic sequences		

Seq. No.	51975	Seq. ID	OJ991116_10.0419.C70
Gene No.	109935	Strand	-
Start	106	End	216
Name	OJ991116_10.0419.C70.o1.gs	Method	GENSCAN
Start	106	End	216
GI	none	Score	.6
Exons	106..216		

Seq. No.	51975	Seq. ID	OJ991116_10.0419.C70
Gene No.	109935	Strand	-
Start	106	End	216
Name	OJ991116_10.0419.C70.o1.np	Method	AAT/NAP
Start	110	End	189
GI	1800223	Score	76
Exons	110..189		
GI Descrip.	(U65018) mannosyltransferase [Dictyostelium discoideum]		

Seq. No.	51976	Seq. ID	OJ991116_10.0419.C74
Gene No.	109936	Strand	+
Start	292	End	410
Name	OJ991116_10.0419.C74.o1.gs	Method	GENSCAN
Start	292	End	410
GI	none	Score	.67
Exons	292..410		

Seq. No.	51977	Seq. ID	OJ991116_10.0419.C75
Gene No.	109937	Strand	+
Start	1	End	883
Name	OJ991116_10.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	883
GI	4539545	Score	261
Exons	1..23, 376..477, 593..651, 770..883		
GI Descrip.	(Y16644) PRCI [Nicotiana tabacum]		

Seq. No.	51977	Seq. ID	OJ991116_10.0419.C75
Gene No.	109937	Strand	+
Start	1	End	883
Name	OJ991116_10.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	350	End	852
GI	none	Score	77
Exons	350..499, 379..456, 381..467, 404..475, 593..649, 593..649, 594..650, 601..651, 768..851, 769..852		

Seq. No.	51977	Seq. ID	OJ991116_10.0419.C75
Gene No.	109937	Strand	+
Start	1	End	883
Name	OJ991116_10.0419.C75.o1.tw	Method	TBLASTX:Wheat
Start	350	End	854
GI	none	Score	83
Exons	350..481, 379..456, 381..467, 404..475, 589..645, 591..647, 594..650, 768..851, 769..852, 769..852, 771..854		

Seq. No.	51977	Seq. ID	OJ991116_10.0419.C75
Gene No.	109937	Strand	+
Start	1	End	883
Name	OJ991116_10.0419.C75.o1.gp	Method	AAT/GAP
Start	379	End	883
GI	4819_1.R1084	Score	380
Exons	379..477, 593..651, 770..883		
GI Descrip.	'4539545/emb\|CAB39975.1\| 1.0e-120 (Y16644) PRCI [Nicotiana tabacum]'		

Seq. No.	51977	Seq. ID	OJ991116_10.0419.C75
Gene No.	109937	Strand	+
Start	1	End	883
Name	OJ991116_10.0419.C75.o1.gs	Method	GENSCAN
Start	440	End	852
GI	none	Score	.75
Exons	440..477, 593..651, 770..852		

Seq. No.	51978	Seq. ID	OJ991116_10.0419.C83
Gene No.	109938	Strand	+
Start	40	End	542
Name	OJ991116_10.0419.C83.o1.gp	Method	AAT/GAP
Start	40	End	542
GI	38782_1.R1084	Score	818
Exons	40..542		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	51978	Seq. ID	OJ991116_10.0419.C83

Gene No.	109938	Strand	+
Start	40	End	542
Name	OJ991116_10.0419.C83.o1.gs	Method	GENSCAN
Start	175	End	248
GI	none	Score	.95
Exons	175..248		

Seq. No.	51979	Seq. ID	OJ991116_10.0419.C85
Gene No.	109939	Strand	+
Start	1178	End	1240
Name	OJ991116_10.0419.C85.o1.gs	Method	GENSCAN
Start	1178	End	1240
GI	none	Score	.65
Exons	1178..1240		

Seq. No.	51980	Seq. ID	OJ991116_10.0419.C86
Gene No.	109940	Strand	-
Start	114	End	433
Name	OJ991116_10.0419.C86.o1.gs	Method	GENSCAN
Start	114	End	433
GI	none	Score	.86
Exons	114..433		

Seq. No.	51981	Seq. ID	OJ991116_17.0421.C3
Gene No.	109941	Strand	+
Start	3422	End	4387
Name	OJ991116_17.0421.C3.o2.gs	Method	GENSCAN
Start	3422	End	4387
GI	none	Score	.92
Exons	3422..3476, 4074..4387		

Seq. No.	51981	Seq. ID	OJ991116_17.0421.C3
Gene No.	109942	Strand	-
Start	1585	End	1923
Name	OJ991116_17.0421.C3.o1.gs	Method	GENSCAN
Start	1585	End	1923
GI	none	Score	.95
Exons	1585..1923		

Seq. No.	51981	Seq. ID	OJ991116_17.0421.C3
Gene No.	109943	Strand	-
Start	4904	End	5306
Name	OJ991116_17.0421.C3.o3.gs	Method	GENSCAN
Start	4904	End	5306
GI	none	Score	.6
Exons	4904..4924, 4955..5066, 5213..5306		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109944	Strand	+
Start	13239	End	13724
Name	OJ991116_17.0421.C4.o4.gs	Method	GENSCAN
Start	13239	End	13724
GI	none	Score	.77
Exons	13239..13724		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109945	Strand	-

Start	30	End	3973
Name	OJ991116_17.0421.C4.o1.gs	Method	GENSCAN
Start	30	End	3973
GI	none	Score	.45
Exons	30..206, 406..485, 1515..1755, 2040..2233, 2323..2479, 3939..3973		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o2.gs	Method	GENSCAN
Start	5928	End	10382
GI	none	Score	.62
Exons	5928..6217, 8916..9196, 9363..9533, 9616..10382		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o1.gp	Method	AAT/GAP
Start	8741	End	9207
GI	LIB3431-001-P1-N1-B5	Score	584
Exons	8741..8919, 9025..9207		
GI Descrip.	'4680203/gb\|AAD27566.1\|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o1.np	Method	AAT/NAP
Start	10128	End	15563
GI	1076211	Score	121
Exons	10128..10150, 10554..10665, 13235..13738, 15451..15563		
GI Descrip.	hypothetical protein VSP-3 - Chlamydomonas reinhardtii gi\|530876 (L29029) amino acid feature: Rod protein domain, aa 266 .. 468; amino acid feature: globular protein domain, aa 32 .. 265 [Chlamydomonas reinhardtii]		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o3.gs	Method	GENSCAN
Start	10845	End	12024
GI	none	Score	.95
Exons	10845..10994, 11073..11806, 11895..12024		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o2.gp	Method	AAT/GAP
Start	14054	End	14831
GI	5002953	Score	478
Exons	14054..14235, 14715..14831		
GI Descrip.	4680203/gb\|AAD27566.1\|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-

Start	5928	End	15563
Name	OJ991116_17.0421.C4.o2.np	Method	AAT/NAP
Start	14168	End	15563
GI	4680203	Score	676
Exons	14168..15106, 15381..15563		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o5.gs	Method	GENSCAN
Start	14192	End	15129
GI	none	Score	.61
Exons	14192..14509, 14578..14659, 14703..15129		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	14279	End	15497
GI	none	Score	67
Exons	14279..14371, 14372..14476, 14400..14477, 14501..14539, 14546..14593, 14582..14773, 14598..14753, 14777..14938, 14781..14921, 14957..15106, 15009..15110, 15097..15255, 15098..15262, 15252..15497, 15328..15453		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	14786	End	15211
GI	none	Score	73
Exons	14786..14938, 14799..14921, 14957..15106, 15009..15110, 15097..15207, 15098..15211		

Seq. No.	51982	Seq. ID	OJ991116_17.0421.C4
Gene No.	109946	Strand	-
Start	5928	End	15563
Name	OJ991116_17.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	15109	End	15561
GI	none	Score	84
Exons	15109..15255, 15116..15253, 15252..15536, 15400..15561		

Seq. No.	51983	Seq. ID	OJ991116_17.0421.C6
Gene No.	109947	Strand	-
Start	1	End	856
Name	OJ991116_17.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	856
GI	4680203	Score	187
Exons	1..574, 825..856		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51983	Seq. ID	OJ991116_17.0421.C6
Gene No.	109947	Strand	-
Start	1	End	856
Name	OJ991116_17.0421.C6.o1.gs	Method	GENSCAN
Start	36	End	574

GI	none	Score	.61
Exons	36..574		

Seq. No.	51984	Seq. ID	OJ991116_17.0421.C7
Gene No.	109948	Strand	+
Start	1617	End	4852
Name	OJ991116_17.0421.C7.o1.np	Method	AAT/NAP
Start	1617	End	4852
GI	6721547	Score	93
Exons	1617..1728, 4811..4852		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51984	Seq. ID	OJ991116_17.0421.C7
Gene No.	109949	Strand	-
Start	4545	End	4612
Name	OJ991116_17.0421.C7.o2.gs	Method	GENSCAN
Start	4545	End	4612
GI	none	Score	.66
Exons	4545..4612		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109950	Strand	+
Start	7583	End	13038
Name	OJ991116_17.0421.C8.o1.gp	Method	AAT/GAP
Start	6926	End	8032
GI	34587_1.R1084	Score	1544
Exons	6926..7403, 7553..7783, 7916..8032		
GI Descrip.	'5881784/emb\|CAB55758.1\| 2.0e-26 (AJ249442) putative AUX1-like permease [Arabidopsis thaliana]'		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109950	Strand	+
Start	7583	End	13038
Name	OJ991116_17.0421.C8.o2.gs	Method	GENSCAN
Start	7583	End	12052
GI	none	Score	.81
Exons	7583..7783, 7916..8101, 8522..8634, 8811..8994, 9106..9203, 10870..11335, 11548..11832, 11912..12052		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109950	Strand	+
Start	7583	End	13038
Name	OJ991116_17.0421.C8.o1.np	Method	AAT/NAP
Start	7592	End	12685
GI	7485590	Score	1992
Exons	7592..7783, 7916..8101, 8522..8634, 8811..8994, 9106..9203, 10870..11335, 12452..12685		
GI Descrip.	hypothetical protein F16M14.5 - Arabidopsis thaliana gi\|1531758\|emb\|CAA67308.1\| (X98772) AUX1 [Arabidopsis thaliana] gi\|3335360\|gb\|AAC27161.1\| (AC003028) unknown protein [Arabidopsis thaliana]		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109950	Strand	+
Start	7583	End	13038
Name	OJ991116_17.0421.C8.o2.gp	Method	AAT/GAP
Start	10861	End	13038

GI	37382_1.R1084	Score	1935
Exons	10861..11335, 12452..13038		
GI Descrip.	'1531758/emb\|CAA67308\| 3.0e-93 (X98772) AUX1 [Arabidopsis thaliana] >gi_3335360 (AC003028) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109951	Strand	-
Start	12431	End	19924
Name	OJ991116_17.0421.C8.o3.gs	Method	GENSCAN
Start	12431	End	19924
GI	none	Score	.6
Exons	12431..12846, 12861..12982, 14652..14755, 15554..15652, 15723..15810, 16671..16774, 18424..18501, 19556..19678, 19817..19924		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109952	Strand	-
Start	20519	End	20836
Name	OJ991116_17.0421.C8.o4.gs	Method	GENSCAN
Start	20519	End	20836
GI	none	Score	.82
Exons	20519..20836		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	7574	End	8016
GI	none	Score	107
Exons	7574..7663, 7708..7785, 7709..7801, 7727..7786, 7913..8014, 7915..8016		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o3.ts	Method	TBLASTX:Soybean
Start	7708	End	8563
GI	none	Score	142
Exons	7708..7785, 7712..7801, 7913..8101, 7915..8091, 8519..8563, 8521..8562		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o3.tc	Method	TBLASTX:Cress
Start	7709	End	8104
GI	none	Score	120
Exons	7709..7801, 7726..7800, 7913..8104, 7915..8091		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o5.tm	Method	TBLASTX:Maize
Start	8514	End	8921
GI	none	Score	207
Exons	8514..8567, 8519..8632, 8521..8634, 8542..8646, 8801..8836,		

8809..8919, 8847..8921

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	8821	End	9215
GI	none	Score	308
Exons	8821..8994, 8847..8990, 8872..8994, 9103..9204, 9105..9215		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	8830	End	11010
GI	none	Score	291
Exons	8830..8994, 8847..9005, 9103..9204, 9105..9215, 10870..11010, 10871..11008		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	8922	End	11172
GI	none	Score	103
Exons	8922..8993, 8923..8994, 8923..8994, 8937..9008, 9103..9204, 9103..9144, 9105..9215, 9323..9379, 10870..11172, 10871..11170		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o4.tc	Method	TBLASTX:Cress
Start	10870	End	10996
GI	none	Score	195
Exons	10870..10995, 10871..10996		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	10996	End	11242
GI	none	Score	371
Exons	10996..11238, 11000..11242		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	11011	End	12643
GI	none	Score	505
Exons	11011..11328, 11012..11332, 12446..12520, 12448..12627, 12563..12643		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o3.tm	Method	TBLASTX:Maize

Start	11173	End	12637
GI	none	Score	270
Exons	11173..11334, 11174..11335, 12445..12504, 12446..12520, 12451..12636, 12563..12637		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o5.tc	Method	TBLASTX:Cress
Start	12446	End	12652
GI	none	Score	107
Exons	12446..12520, 12451..12627, 12563..12652		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o4.tm	Method	TBLASTX:Maize
Start	14838	End	20668
GI	none	Score	118
Exons	14838..14894, 14937..15035, 14941..15036, 14941..15030, 15529..15612, 15539..15655, 15551..15655, 15717..15803, 15721..15795, 15723..15809, 15724..15807, 16668..16775, 16669..16782, 16670..16783, 16670..16777, 18408..18503, 18421..18522, 18421..18504, 18423..18518, 19556..19678, 19557..19679, 19811..19894, 19817..19891, 19821..19895, 19821..19895, 20003..20053, 20004..20033, 20005..20091, 20048..20086, 20534..20641, 20597..20668		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o4.ts	Method	TBLASTX:Soybean
Start	14838	End	20668
GI	none	Score	118
Exons	14838..14894, 14937..15035, 14941..15036, 14941..15030, 15529..15612, 15539..15655, 15551..15655, 15717..15803, 15721..15795, 15723..15809, 15724..15807, 16668..16775, 16669..16782, 16670..16783, 16670..16777, 18408..18503, 18421..18522, 18421..18504, 18423..18518, 19556..19678, 19557..19679, 19811..19894, 19817..19891, 19821..19895, 19821..19895, 20003..20053, 20004..20033, 20005..20091, 20048..20086, 20534..20641, 20597..20668		

Seq. No.	51985	Seq. ID	OJ991116_17.0421.C8
Gene No.	109953	Strand	-
Start	20830	End	21018
Name	OJ991116_17.0421.C8.o4.gp	Method	AAT/GAP
Start	20830	End	21018
GI	uC-osflcyp125f05b1	Score	363
Exons	20830..21018		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 8.0e-61 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51986	Seq. ID	OJ991116_17.0421.C9
Gene No.	109954	Strand	+
Start	12	End	1455
Name	OJ991116_17.0421.C9.o1.gs	Method	GENSCAN

Start	12	End	1455
GI	none	Score	.64
Exons	12..98, 914..1069, 1267..1455		

Seq. No.	51986	Seq. ID	OJ991116_17.0421.C9
Gene No.	109955	Strand	-
Start	2150	End	2202
Name	OJ991116_17.0421.C9.o2.gs	Method	GENSCAN
Start	2150	End	2202
GI	none	Score	.59
Exons	2150..2202		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109956	Strand	+
Start	757	End	7854
Name	OJ991116_17.0421.C10.o1.gs	Method	GENSCAN
Start	757	End	7708
GI	none	Score	.55
Exons	757..894, 1081..1295, 3913..4094, 4306..4388, 5181..5295, 5480..5623, 5703..5863, 5942..6295, 6653..6773, 6868..7078, 7603..7708		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109956	Strand	+
Start	757	End	7854
Name	OJ991116_17.0421.C10.o1.np	Method	AAT/NAP
Start	826	End	1263
GI	3582339	Score	504
Exons	826..1263		
GI Descrip.	(AC005496) unknown protein [Arabidopsis thaliana]		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109956	Strand	+
Start	757	End	7854
Name	OJ991116_17.0421.C10.o3.np	Method	AAT/NAP
Start	4363	End	7854
GI	6759449	Score	180
Exons	4363..4430, 5703..5863, 5942..6215, 7753..7854		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109957	Strand	-
Start	3645	End	4567
Name	OJ991116_17.0421.C10.o2.np	Method	AAT/NAP
Start	3645	End	4567
GI	133999	Score	274
Exons	3645..3829, 3904..4039, 4417..4567		
GI Descrip.	CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 gi\|70904\|pir\|\|R3RZ7 ribosomal protein S7 - rice chloroplast gi\|12037\|emb\|CAA33942\| (X15901) ribosomal protein S7 [Oryza sativa] gi\|12065\|emb\|CAA33919\| (X15901) ribosomal protein S7 [Oryza sativa] gi\|226657\|prf\|\|1603356CH ribosomal protein S7 [Oryza sativa]		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121

Name	OJ991116_17.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	789	End	1050
GI	none	Score	69
Exons	789..866, 790..867, 862..1050, 873..1046		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	829	End	1257
GI	none	Score	44
Exons	829..882, 891..1256, 892..1257		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	852	End	1257
GI	none	Score	619
Exons	852..1256, 853..1257		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	891	End	1263
GI	none	Score	211
Exons	891..1013, 892..1014, 1023..1253, 1027..1263		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	3433	End	4000
GI	none	Score	168
Exons	3433..3615, 3455..3622, 3459..3626, 3459..3617, 3461..3619, 3599..3685, 3612..3722, 3619..3684, 3620..3721, 3697..3846, 3697..3846, 3698..3859, 3705..3878, 3811..3894, 3827..3892, 3846..3875, 3871..3903, 3874..3903, 3919..3981, 3921..3950, 3945..3986, 3947..4000		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	3455	End	4000
GI	none	Score	38
Exons	3455..3484, 3497..3619, 3511..3546, 3522..3626, 3621..3686, 3626..3718, 3699..3845, 3705..3845, 3706..3852, 3706..3846, 3883..3903, 3919..3945, 3956..4000, 3957..3986		

Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o2.tc	Method	TBLASTX:Cress
Start	3517	End	4000
GI	none	Score	43

Exons	3517..3546, 3531..3626, 3551..3619, 3611..3685, 3621..3722, 3625..3684, 3627..3686, 3641..3721, 3668..3847, 3699..3845, 3706..3846, 3811..3876, 3880..3903, 3919..3945, 3953..4000, 3954..3986		
Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o2.gs	Method	GENSCAN
Start	8087	End	15121
GI	none	Score	.87
Exons	8087..8113, 8171..8239, 9531..9596, 9946..10026, 10138..10346, 10499..10595, 11000..11130, 11756..11786, 11853..11942, 12019..12124, 12218..12288, 12366..12523, 13080..13290, 14001..14471, 14789..15121		
Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o4.np	Method	AAT/NAP
Start	10183	End	15065
GI	6759450	Score	1283
Exons	10183..10346, 10499..10595, 10864..10917, 11000..11098, 11173..11594, 11747..11942, 12019..12124, 12218..12288, 12363..12523, 13080..13290, 14001..14471, 14789..15065		
GI Descrip.	(AL137189) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	51987	Seq. ID	OJ991116_17.0421.C10
Gene No.	109958	Strand	-
Start	8087	End	15121
Name	OJ991116_17.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	12084	End	12523
GI	none	Score	44
Exons	12084..12125, 12085..12126, 12085..12126, 12087..12128, 12092..12130, 12215..12289, 12217..12288, 12219..12314, 12220..12315, 12228..12365, 12351..12518, 12363..12521, 12371..12523		
Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109959	Strand	+
Start	1095	End	1495
Name	OJ991116_17.0421.C11.o1.gp	Method	AAT/GAP
Start	1095	End	1495
GI	none	Score	798
Exons	1095..1495		
Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109960	Strand	+
Start	10740	End	11307
Name	OJ991116_17.0421.C11.o2.gp	Method	AAT/GAP
Start	10740	End	11307
GI	35111_1.R1084	Score	1060
Exons	10740..11307		
GI Descrip.	'3021344/emb\|CAA06244\| 1.0e-12 (AJ004959) hypothetical protein [Cicer arietinum]'		
Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11

Gene No.	109961	Strand	-
Start	1603	End	2845
Name	OJ991116_17.0421.C11.o1.gs	Method	GENSCAN
Start	1603	End	2651
GI	none	Score	.87
Exons	1603..2056, 2337..2404, 2487..2651		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109961	Strand	-
Start	1603	End	2845
Name	OJ991116_17.0421.C11.o1.np	Method	AAT/NAP
Start	1609	End	2845
GI	7447521	Score	517
Exons	1609..2093, 2371..2404, 2487..2845		
GI Descrip.	hypothetical protein F26B6.6 - Arabidopsis thaliana gi\|3242704\|gb\|AAC23756.1\| (AC003040) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109962	Strand	-
Start	4642	End	10458
Name	OJ991116_17.0421.C11.o2.gs	Method	GENSCAN
Start	4642	End	10410
GI	none	Score	.54
Exons	4642..4728, 4828..4963, 5409..5592, 7011..7203, 7543..7613, 7932..8022, 8347..8444, 8688..8825, 8965..9043, 9405..9527, 9956..9998, 10097..10410		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109962	Strand	-
Start	4642	End	10458
Name	OJ991116_17.0421.C11.o2.np	Method	AAT/NAP
Start	7017	End	10458
GI	7340662	Score	811
Exons	7017..7203, 7543..7606, 7696..7822, 7932..8022, 8347..8435, 8688..8804, 8965..9031, 9119..9238, 9405..9529, 9922..9998, 10097..10458		
GI Descrip.	(AL162506) 3-deoxy-D-manno-octulosonic acid transferase-like protein [Arabidopsis thaliana]		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	1575	End	2711
GI	none	Score	144
Exons	1575..1688, 1606..1806, 1607..1732, 1609..1815, 1798..2058, 1810..1992, 1874..2047, 2485..2559, 2487..2711, 2488..2565, 2614..2688		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o4.ts	Method	TBLASTX:Soybean
Start	1604	End	2055
GI	none	Score	71
Exons	1604..1795, 1612..1824, 1789..2019, 1877..2020, 2017..2055		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o3.ts	Method	TBLASTX:Soybean
Start	2361	End	2702
GI	none	Score	53
Exons	2361..2405, 2363..2407, 2372..2407, 2481..2579, 2484..2702, 2485..2685		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o4.tc	Method	TBLASTX:Cress
Start	2484	End	2711
GI	none	Score	51
Exons	2484..2711, 2500..2559, 2614..2682		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	7558	End	8026
GI	none	Score	60
Exons	7558..7623, 7559..7615, 7693..7842, 7701..7844, 7702..7839, 7739..7852, 7897..8019, 7931..8026, 7932..7997, 7937..8017		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	10882	End	11289
GI	none	Score	242
Exons	10882..11289, 10898..11287		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o3.gs	Method	GENSCAN
Start	10897	End	14400
GI	none	Score	.56
Exons	10897..11645, 11819..12145, 13071..13166, 13502..13609, 14145..14400		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o3.np	Method	AAT/NAP
Start	10900	End	14371
GI	6579208	Score	1230
Exons	10900..11630, 11734..11935, 12048..12145, 14145..14371		
GI Descrip.	(AC011438) T23G18.9 [Arabidopsis thaliana]		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o2.tc	Method	TBLASTX:Cress

Start	10903	End	11256
GI	none	Score	108
Exons	10903..11256, 11030..11194		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	11053	End	11631
GI	none	Score	168
Exons	11053..11340, 11368..11631		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	11338	End	14397
GI	none	Score	210
Exons	11338..11589, 11348..11587, 11362..11589, 11602..11646, 11747..11941, 11748..11936, 12025..12147, 12048..12146, 14143..14397, 14144..14386		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o3.tc	Method	TBLASTX:Cress
Start	11540	End	12143
GI	none	Score	49
Exons	11540..11584, 11542..11586, 11600..11632, 11602..11646, 11724..11936, 11729..11941, 12024..12143		

Seq. No.	51988	Seq. ID	OJ991116_17.0421.C11
Gene No.	109963	Strand	-
Start	10897	End	14400
Name	OJ991116_17.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	14146	End	14397
GI	none	Score	247
Exons	14146..14397, 14159..14386		

Seq. No.	51989	Seq. ID	OJ991116_17.0421.C12
Gene No.	109964	Strand	-
Start	1	End	182
Name	OJ991116_17.0421.C12.o1.gp	Method	AAT/GAP
Start	1	End	182
GI	60013_1.R1084	Score	360
Exons	1..182		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 8.0e-61 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51989	Seq. ID	OJ991116_17.0421.C12
Gene No.	109965	Strand	-
Start	1685	End	3199
Name	OJ991116_17.0421.C12.o2.gs	Method	GENSCAN
Start	1685	End	3199
GI	none	Score	.58
Exons	1685..1778, 3072..3199		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109966	Strand	+
Start	6486	End	9595
Name	OJ991116_17.0421.C13.o2.gs	Method	GENSCAN
Start	6486	End	9577
GI	none	Score	.84
Exons	6486..6939, 7023..7120, 7507..7607, 8418..8553, 8645..8695, 8801..9088, 9386..9577		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109966	Strand	+
Start	6486	End	9595
Name	OJ991116_17.0421.C13.o2.np	Method	AAT/NAP
Start	6489	End	9595
GI	3860251	Score	1330
Exons	6489..7120, 7208..7378, 7504..7607, 8418..8553, 8645..8695, 8801..9088, 9386..9595		
GI Descrip.	(AC005824) putative membrane transporter [Arabidopsis thaliana]		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109967	Strand	-
Start	646	End	726
Name	OJ991116_17.0421.C13.o1.np	Method	AAT/NAP
Start	646	End	726
GI	6630699	Score	95
Exons	646..726		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109968	Strand	
Start	7022	End	7330
Name	OJ991116_17.0421.C13.o2.ts	Method	TBLASTX:Soybean
Start	7022	End	7330
GI	none	Score	125
Exons	7022..7138, 7039..7113, 7211..7330, 7222..7329		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109969	Strand	
Start	7232	End	9592
Name	OJ991116_17.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	7232	End	9055
GI	none	Score	35
Exons	7232..7258, 7258..7359, 7259..7378, 7489..7608, 7512..7610, 8407..8553, 8412..8513, 8639..8704, 8645..8719, 8800..9045, 8819..9055		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13
Gene No.	109969	Strand	
Start	7232	End	9592
Name	OJ991116_17.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	8645	End	9592
GI	none	Score	81
Exons	8645..8716, 8800..9099, 8819..9058, 9361..9591, 9386..9592		

Seq. No.	51990	Seq. ID	OJ991116_17.0421.C13

Gene No.	109969	Strand	
Start	7232	End	9592
Name	OJ991116_17.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	9386	End	9592
GI	none	Score	230
Exons	9386..9592, 9395..9574		

Seq. No.	51991	Seq. ID	OJ991116_17.0421.C14
Gene No.	109970	Strand	+
Start	1	End	2259
Name	OJ991116_17.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	1197
GI	3860251	Score	495
Exons	1..202, 947..1197		
GI Descrip.	(AC005824) putative membrane transporter [Arabidopsis thaliana]		

Seq. No.	51991	Seq. ID	OJ991116_17.0421.C14
Gene No.	109970	Strand	+
Start	1	End	2259
Name	OJ991116_17.0421.C14.o1.gs	Method	GENSCAN
Start	1015	End	2259
GI	none	Score	.7
Exons	1015..1175, 2133..2259		

Seq. No.	51991	Seq. ID	OJ991116_17.0421.C14
Gene No.	109971	Strand	-
Start	1130	End	1597
Name	OJ991116_17.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	21	End	1200
GI	none	Score	60
Exons	21..107, 34..108, 35..124, 116..205, 973..1161, 978..1088, 1170..1193, 1171..1200		

Seq. No.	51991	Seq. ID	OJ991116_17.0421.C14
Gene No.	109971	Strand	-
Start	1130	End	1597
Name	OJ991116_17.0421.C14.o1.gp	Method	AAT/GAP
Start	1130	End	1597
GI	uC-osflcyp132f03a1	Score	908
Exons	1130..1597		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109972	Strand	+
Start	6052	End	13827
Name	OJ991116_17.0421.C15.o2.gs	Method	GENSCAN
Start	6052	End	13761
GI	none	Score	.71
Exons	6052..6170, 6243..6357, 7420..7574, 10827..11091, 11252..11509, 11624..11783, 12428..12497, 13683..13761		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109972	Strand	+
Start	6052	End	13827
Name	OJ991116_17.0421.C15.o2.np	Method	AAT/NAP
Start	10942	End	13827

GI	7493532	Score	247
Exons	10942..11091, 11252..11509, 11624..11787, 11876..11992, 12562..12665, 12797..12859, 13782..13827		
GI Descrip.	Trp-Asp repeat protein - fission yeast (Schizosaccharomyces pombe) gi\|5830509\|emb\|CAB54817.1\| (AL110506) WD repeat protein [Schizosaccharomyces pombe]		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109972	Strand	+
Start	6052	End	13827
Name	OJ991116_17.0421.C15.o3.np	Method	AAT/NAP
Start	12575	End	13482
GI	6693030	Score	382
Exons	12575..12665, 12797..13117, 13200..13273, 13443..13482		
GI Descrip.	(AC012375) T22C5.29 [Arabidopsis thaliana]		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.gp	Method	AAT/GAP
Start	309	End	642
GI	701114	Score	653
Exons	309..642		
GI Descrip.	5852170/emb\|AL117265.1\|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.gs	Method	GENSCAN
Start	371	End	5415
GI	none	Score	.61
Exons	371..1526, 1925..2204, 2290..2723, 2809..2996, 2998..3148, 4008..4112, 5055..5242, 5322..5415		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.np	Method	AAT/NAP
Start	551	End	5415
GI	5852181	Score	3450
Exons	551..1526, 1925..2144, 2290..2342, 2421..2723, 2809..2972, 2998..3148, 4008..4112, 5055..5242, 5322..5415		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	633	End	1180
GI	none	Score	126
Exons	633..761, 864..1034, 918..1034, 922..1035, 923..1036, 925..1077, 1042..1125, 1044..1166, 1132..1161, 1133..1180		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166

Name	OJ991116_17.0421.C15.o2.gp	Method	AAT/GAP
Start	3705	End	6166
GI	102_6.R1084	Score	1663
Exons	3705..4112, 5055..5242, 5322..5459, 6021..6166		
GI Descrip.	'2911068/emb\|CAA17530.1\| 1.0e-78 (AL021960) G10-like protein [Arabidopsis thaliana]'		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	3884	End	5223
GI	none	Score	39
Exons	3884..3928, 3952..4122, 3956..4123, 3957..4115, 3964..4122, 5031..5222, 5056..5223		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.ts	Method	TBLASTX:Soybean
Start	3955	End	5419
GI	none	Score	221
Exons	3955..4122, 3957..4115, 5031..5243, 5049..5237, 5056..5247, 5056..5244, 5319..5414, 5320..5415, 5323..5415, 5324..5419		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.tc	Method	TBLASTX:Cress
Start	3957	End	5421
GI	none	Score	169
Exons	3957..4109, 3961..4110, 3973..4110, 5031..5141, 5056..5139, 5057..5146, 5142..5228, 5143..5247, 5145..5243, 5314..5421, 5315..5419, 5320..5421		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109973	Strand	-
Start	309	End	6166
Name	OJ991116_17.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	3957	End	5430
GI	none	Score	171
Exons	3957..4115, 3958..4122, 3960..4115, 3961..4122, 5031..5243, 5049..5240, 5056..5247, 5056..5244, 5311..5430, 5319..5429, 5323..5430		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109974	Strand	
Start	11662	End	13099
Name	OJ991116_17.0421.C15.o3.ts	Method	TBLASTX:Soybean
Start	11662	End	11978
GI	none	Score	156
Exons	11662..11781, 11663..11797, 11666..11782, 11667..11801, 11856..11978, 11870..11977		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109974	Strand	
Start	11662	End	13099

Name	OJ991116_17.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	11840	End	12875
GI	none	Score	172
Exons	11840..12004, 11843..12025, 11871..12023, 12472..12663, 12473..12664, 12474..12665, 12484..12669, 12773..12862, 12781..12873, 12786..12875		

Seq. No.	51992	Seq. ID	OJ991116_17.0421.C15
Gene No.	109974	Strand	
Start	11662	End	13099
Name	OJ991116_17.0421.C15.o2.ts	Method	TBLASTX:Soybean
Start	12587	End	13099
GI	none	Score	109
Exons	12587..12667, 12592..12672, 12595..12669, 12781..12951, 12795..12938, 12817..12939, 13015..13095, 13028..13099		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109975	Strand	+
Start	2107	End	8590
Name	OJ991116_16.0421.C1.o1.gs	Method	GENSCAN
Start	2107	End	8590
GI	none	Score	.69
Exons	2107..2461, 3054..3816, 3875..3899, 4070..4441, 4502..8590		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109975	Strand	+
Start	2107	End	8590
Name	OJ991116_16.0421.C1.o1.np	Method	AAT/NAP
Start	4067	End	8587
GI	4680179	Score	5414
Exons	4067..5152, 5186..8587		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109976	Strand	-
Start	641	End	1022
Name	OJ991116_16.0421.C1.o1.gp	Method	AAT/GAP
Start	641	End	1022
GI	uC-osflcyp033a04b1	Score	667
Exons	641..1022		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109977	Strand	
Start	4316	End	4515
Name	OJ991116_16.0421.C1.o9.tw	Method	TBLASTX:Wheat
Start	4316	End	4515
GI	none	Score	203
Exons	4316..4513, 4318..4515		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109978	Strand	
Start	4549	End	4900
Name	OJ991116_16.0421.C1.o7.tw	Method	TBLASTX:Wheat
Start	4549	End	4900
GI	none	Score	291

Exons	4549..4743, 4550..4900		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109978	Strand	
Start	4549	End	4900
Name	OJ991116_16.0421.C1.o6.tm	Method	TBLASTX:Maize
Start	4550	End	4855
GI	none	Score	230
Exons	4550..4855, 4564..4680		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109979	Strand	
Start	5177	End	5581
Name	OJ991116_16.0421.C1.o7.tm	Method	TBLASTX:Maize
Start	5177	End	5530
GI	none	Score	189
Exons	5177..5530		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109979	Strand	
Start	5177	End	5581
Name	OJ991116_16.0421.C1.o8.tw	Method	TBLASTX:Wheat
Start	5213	End	5581
GI	none	Score	165
Exons	5213..5422, 5269..5361, 5468..5581, 5476..5580		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o4.tw	Method	TBLASTX:Wheat
Start	5746	End	6232
GI	none	Score	52
Exons	5746..6189, 5750..5800, 5855..6232, 5864..6229		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o5.tm	Method	TBLASTX:Maize
Start	5761	End	6051
GI	none	Score	276
Exons	5761..6051, 5762..6049		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o2.tc	Method	TBLASTX:Cress
Start	5879	End	6196
GI	none	Score	180
Exons	5879..6196		
Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o3.tm	Method	TBLASTX:Maize
Start	6119	End	6619
GI	none	Score	171
Exons	6119..6298, 6127..6246, 6305..6619, 6445..6498, 6526..6576		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o1.ts	Method	TBLASTX:Soybean
Start	6173	End	6568
GI	none	Score	57
Exons	6173..6205, 6175..6204, 6209..6568, 6210..6242, 6292..6567		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109980	Strand	
Start	5746	End	6619
Name	OJ991116_16.0421.C1.o5.tw	Method	TBLASTX:Wheat
Start	6281	End	6583
GI	none	Score	382
Exons	6281..6583, 6292..6567		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109981	Strand	
Start	6584	End	7018
Name	OJ991116_16.0421.C1.o3.tw	Method	TBLASTX:Wheat
Start	6584	End	7009
GI	none	Score	598
Exons	6584..7009, 6598..7005, 6632..7009		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109981	Strand	
Start	6584	End	7018
Name	OJ991116_16.0421.C1.o3.ts	Method	TBLASTX:Soybean
Start	6590	End	6835
GI	none	Score	209
Exons	6590..6835, 6592..6834		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109981	Strand	
Start	6584	End	7018
Name	OJ991116_16.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	6655	End	7018
GI	none	Score	484
Exons	6655..7005, 6656..7009, 6659..7018		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o2.tw	Method	TBLASTX:Wheat
Start	7018	End	7576
GI	none	Score	630
Exons	7018..7575, 7085..7576		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o1.tc	Method	TBLASTX:Cress
Start	7283	End	7600
GI	none	Score	90
Exons	7283..7456, 7457..7600, 7459..7599		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o2.ts	Method	TBLASTX:Soybean
Start	7364	End	7625
GI	none	Score	296
Exons	7364..7624, 7369..7623, 7443..7625		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o4.tm	Method	TBLASTX:Maize
Start	7422	End	7714
GI	none	Score	96
Exons	7422..7610, 7423..7710, 7424..7714		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	7583	End	8209
GI	none	Score	688
Exons	7583..8209, 7639..8097, 8084..8206		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	7763	End	8362
GI	none	Score	232
Exons	7763..7924, 7766..7918, 7922..8362, 7924..8346		

Seq. No.	51993	Seq. ID	OJ991116_16.0421.C1
Gene No.	109982	Strand	
Start	7018	End	8542
Name	OJ991116_16.0421.C1.o6.tw	Method	TBLASTX:Wheat
Start	8209	End	8542
GI	none	Score	322
Exons	8209..8478, 8210..8542		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109983	Strand	+
Start	4084	End	4468
Name	OJ991116_16.0421.C2.o1.gp	Method	AAT/GAP
Start	4084	End	4468
GI	uC-osflcyp033a04b1	Score	638
Exons	4084..4468		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109984	Strand	+
Start	6599	End	8806
Name	OJ991116_16.0421.C2.o2.gp	Method	AAT/GAP
Start	6495	End	6878
GI	uC-osflcyp033a04b1	Score	669
Exons	6495..6878		

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109984	Strand	+
Start	6599	End	8806
Name	OJ991116_16.0421.C2.o2.gs	Method	GENSCAN
Start	6599	End	8806
GI	none	Score	.75
Exons	6599..6664, 8280..8603, 8657..8806		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109985	Strand	+
Start	9252	End	9502
Name	OJ991116_16.0421.C2.o3.gp	Method	AAT/GAP
Start	9252	End	9502
GI	101153_1.R1084	Score	397
Exons	9252..9502		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109986	Strand	+
Start	9518	End	9945
Name	OJ991116_16.0421.C2.o4.gp	Method	AAT/GAP
Start	9518	End	9945
GI	2428185	Score	745
Exons	9518..9945		

GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109987	Strand	+
Start	10468	End	10754
Name	OJ991116_16.0421.C2.o5.gp	Method	AAT/GAP
Start	10468	End	10754
GI	61605_3.R1084	Score	335
Exons	10468..10754		

GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109988	Strand	+
Start	17868	End	19212
Name	OJ991116_16.0421.C2.o5.np	Method	AAT/NAP
Start	17868	End	19212
GI	6630699	Score	86
Exons	17868..17905, 19136..19212		

GI Descrip. (AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109989	Strand	+
Start	20797	End	22518
Name	OJ991116_16.0421.C2.o5.gs	Method	GENSCAN
Start	20797	End	22518

GI	none	Score	.93
Exons	20797..20839, 21695..21853, 21944..22518		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109990	Strand	+
Start	28799	End	30323
Name	OJ991116_16.0421.C2.o8.gs	Method	GENSCAN
Start	28799	End	30323
GI	none	Score	.58
Exons	28799..29169, 29394..29505, 29538..30323		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109991	Strand	+
Start	30940	End	31650
Name	OJ991116_16.0421.C2.o9.gs	Method	GENSCAN
Start	30940	End	31650
GI	none	Score	.87
Exons	30940..31085, 31245..31650		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109992	Strand	+
Start	33579	End	34563
Name	OJ991116_16.0421.C2.o10.gs	Method	GENSCAN
Start	33579	End	34563
GI	none	Score	1
Exons	33579..34306, 34336..34419, 34512..34563		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	14952
GI	5852180	Score	844
Exons	1..30, 1971..2038, 2747..3162, 3214..3331, 6727..6796, 12372..12484, 14933..14952		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o2.np	Method	AAT/NAP
Start	6862	End	9857
GI	5852179	Score	297
Exons	6862..6889, 8246..8554, 8629..8850, 9837..9857		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o3.gs	Method	GENSCAN
Start	12062	End	14215
GI	none	Score	.51
Exons	12062..14215		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032

Name	OJ991116_16.0421.C2.o6.tm	Method	TBLASTX:Maize
Start	12148	End	12523
GI	none	Score	72
Exons	12148..12387, 12149..12385, 12231..12389, 12386..12460, 12387..12458, 12452..12523		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	12655	End	13348
GI	none	Score	36
Exons	12655..12756, 12722..13225, 12849..13019, 13316..13348		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o7.tm	Method	TBLASTX:Maize
Start	13739	End	14017
GI	none	Score	92
Exons	13739..14017, 13740..14006		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	13854	End	16834
GI	none	Score	77
Exons	13854..14009, 13856..14017, 16370..16462, 16472..16765, 16472..16834, 16479..16832		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o3.np	Method	AAT/NAP
Start	13858	End	22382
GI	7489454	Score	772
Exons	13858..14526, 16377..17622, 22173..22382		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi\|2943742\|dbj\|BAA25068.1\| (AB002266) XA1 [Oryza sativa]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o4.np	Method	AAT/NAP
Start	16314	End	17519
GI	7489397	Score	595
Exons	16314..17519		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi\|2792210\|gb\|AAB96980.1\| (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o5.tm	Method	TBLASTX:Maize
Start	16403	End	16858

GI	none	Score	36
Exons	16403..16447, 16404..16466, 16550..16858, 16554..16856		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o2.ts	Method	TBLASTX:Soybean
Start	16868	End	17344
GI	none	Score	65
Exons	16868..17017, 17075..17161, 17186..17299, 17208..17300, 17288..17344		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	16982	End	17356
GI	none	Score	235
Exons	16982..17350, 16982..17356, 16983..17354		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o4.tm	Method	TBLASTX:Maize
Start	17513	End	17941
GI	none	Score	71
Exons	17513..17617, 17516..17614, 17523..17618, 17626..17733, 17660..17941, 17775..17897		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o6.np	Method	AAT/NAP
Start	21196	End	38765
GI	5295955	Score	704
Exons	21196..21758, 21798..21869, 21948..22137, 22186..22402, 23242..23353, 23891..23961, 31378..31613, 34007..34429, 38713..38765		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o6.gs	Method	GENSCAN
Start	22965	End	25728
GI	none	Score	.41
Exons	22965..23044, 23230..23289, 23891..23960, 24244..24437, 24764..25062, 25459..25560, 25712..25728		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	29513	End	29876
GI	none	Score	133
Exons	29513..29647, 29514..29648, 29651..29875, 29652..29876		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	29741	End	30071
GI	none	Score	468
Exons	29741..30070, 29760..30071		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	29753	End	29996
GI	none	Score	197
Exons	29753..29953, 29760..29996		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o6.gp	Method	AAT/GAP
Start	32819	End	32978
GI	uC-osflm202104a07b1	Score	143
Exons	32819..32978		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o7.gp	Method	AAT/GAP
Start	33065	End	33118
GI	uC-osflcyp111c03a1	Score	86
Exons	33065..33118		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 4.0e-11 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o11.gs	Method	GENSCAN
Start	35300	End	39032
GI	none	Score	.52
Exons	35300..35421, 35703..36596, 36645..36780, 37351..37436, 38816..38910, 38915..39032		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2
Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o7.np	Method	AAT/NAP
Start	35303	End	39032
GI	6815052	Score	2167
Exons	35303..35421, 35703..35777, 35859..36596, 36645..36780, 37563..37655, 38518..38617, 38915..39032		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	51994	Seq. ID	OJ991116_16.0421.C2

Gene No.	109993	Strand	-
Start	1	End	39032
Name	OJ991116_16.0421.C2.o2.tw	Method	TBLASTX:Wheat
Start	36835	End	37329
GI	none	Score	66
Exons	36835..37329, 36935..37093, 37039..37305		

Seq. No.	51995	Seq. ID	OJ991116_16.0421.C3
Gene No.	109994	Strand	-
Start	1	End	1737
Name	OJ991116_16.0421.C3.o1.np	Method	AAT/NAP
Start	1	End	1737
GI	6815052	Score	261
Exons	1..283, 1373..1737		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109995	Strand	+
Start	2372	End	4289
Name	OJ991116_16.0421.C5.o2.np	Method	AAT/NAP
Start	2372	End	4289
GI	6907087	Score	1239
Exons	2372..2749, 2947..3637, 4188..4289		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109996	Strand	+
Start	4751	End	5134
Name	OJ991116_16.0421.C5.o1.gp	Method	AAT/GAP
Start	4751	End	5134
GI	uC-osflcyp033a04b1	Score	685
Exons	4751..5134		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109997	Strand	-
Start	1	End	3958
Name	OJ991116_16.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	1193
GI	6983860	Score	575
Exons	1..705, 1140..1193		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109997	Strand	-
Start	1	End	3958
Name	OJ991116_16.0421.C5.o1.gs	Method	GENSCAN
Start	42	End	3958
GI	none	Score	.58
Exons	42..627, 750..1637, 2112..2301, 2633..3623, 3719..3907, 3916..3958		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5

Gene No.	109998	Strand	-
Start	4182	End	6131
Name	OJ991116_16.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	28	End	327
GI	none	Score	78
Exons	28..327, 224..316		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109998	Strand	-
Start	4182	End	6131
Name	OJ991116_16.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	208	End	567
GI	none	Score	137
Exons	208..567, 272..565		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109998	Strand	-
Start	4182	End	6131
Name	OJ991116_16.0421.C5.o2.gs	Method	GENSCAN
Start	4182	End	5951
GI	none	Score	.68
Exons	4182..4288, 5891..5951		

Seq. No.	51996	Seq. ID	OJ991116_16.0421.C5
Gene No.	109998	Strand	-
Start	4182	End	6131
Name	OJ991116_16.0421.C5.o3.np	Method	AAT/NAP
Start	4680	End	6131
GI	4680186	Score	229
Exons	4680..4884, 6062..6131		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	109999	Strand	+
Start	9739	End	15301
Name	OJ991116_16.0421.C6.o2.np	Method	AAT/NAP
Start	9739	End	15301
GI	5852180	Score	676
Exons	9739..9791, 10871..10987, 11039..11452, 12163..12236, 15272..15301		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	110000	Strand	-
Start	1	End	3289
Name	OJ991116_16.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	3289
GI	6983860	Score	340
Exons	1..24, 2483..2618, 2826..3289		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	110001	Strand	-
Start	14232	End	15301
Name	OJ991116_16.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	2961	End	3260

GI	none	Score	78
Exons	2961..3260, 3157..3249		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	110001	Strand	-
Start	14232	End	15301
Name	OJ991116_16.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	2964	End	3260
GI	none	Score	85
Exons	2964..3260, 3079..3249, 3132..3260		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	110001	Strand	-
Start	14232	End	15301
Name	OJ991116_16.0421.C6.o3.gs	Method	GENSCAN
Start	14232	End	15116
GI	none	Score	.93
Exons	14232..14387, 14496..15116		

Seq. No.	51997	Seq. ID	OJ991116_16.0421.C6
Gene No.	110001	Strand	-
Start	14232	End	15301
Name	OJ991116_16.0421.C6.o3.np	Method	AAT/NAP
Start	14525	End	15301
GI	7494472	Score	81
Exons	14525..14645, 14913..14997, 15143..15218, 15252..15301		
GI Descrip.	cnjB protein - Tetrahymena thermophila gi\|161752\|gb\|AAC37171.1\| (L03710) cnjB [Tetrahymena thermophila] gi\|737494\|prf\|\|1922371A cnjB gene [Tetrahymena thermophila]		

Seq. No.	51998	Seq. ID	OJ991116_16.0421.C8
Gene No.	110002	Strand	-
Start	1	End	370
Name	OJ991116_16.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	370
GI	5852180	Score	325
Exons	1..202, 253..370		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51999	Seq. ID	OJ991116_16.0421.C10
Gene No.	110003	Strand	+
Start	89	End	1298
Name	OJ991116_16.0421.C10.o1.np	Method	AAT/NAP
Start	89	End	523
GI	4680185	Score	496
Exons	89..523		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51999	Seq. ID	OJ991116_16.0421.C10
Gene No.	110003	Strand	+
Start	89	End	1298
Name	OJ991116_16.0421.C10.o1.gs	Method	GENSCAN
Start	128	End	1298
GI	none	Score	.49
Exons	128..538, 1251..1298		

Seq. No.	52000	Seq. ID	OJ991116_16.0421.C24

Gene No.	110004	Strand	+
Start	1	End	1706
Name	OJ991116_16.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	1706
GI	7522209	Score	120
Exons	1..590, 1622..1706		
GI Descrip.	hypothetical protein T24C20.70 - Arabidopsis thaliana gi\|5541725\|emb\|CAB51066.1\| (AL096856) putative protein [Arabidopsis thaliana]		

Seq. No.	52000	Seq. ID	OJ991116_16.0421.C24
Gene No.	110004	Strand	+
Start	1	End	1706
Name	OJ991116_16.0421.C24.o1.gs	Method	GENSCAN
Start	36	End	551
GI	none	Score	.42
Exons	36..551		

Seq. No.	52001	Seq. ID	OJ991116_16.0421.C25
Gene No.	110005	Strand	+
Start	299	End	421
Name	OJ991116_16.0421.C25.o1.gs	Method	GENSCAN
Start	299	End	421
GI	none	Score	.5
Exons	299..421		

Seq. No.	52002	Seq. ID	OJ991116_16.0421.C30
Gene No.	110006	Strand	+
Start	279	End	560
Name	OJ991116_16.0421.C30.o1.gs	Method	GENSCAN
Start	279	End	560
GI	none	Score	.85
Exons	279..353, 438..560		

Seq. No.	52003	Seq. ID	OJ991116_16.0421.C45
Gene No.	110007	Strand	+
Start	569	End	1852
Name	OJ991116_16.0421.C45.o1.gs	Method	GENSCAN
Start	569	End	1681
GI	none	Score	.91
Exons	569..720, 818..1019, 1103..1150, 1239..1322, 1637..1681		

Seq. No.	52003	Seq. ID	OJ991116_16.0421.C45
Gene No.	110007	Strand	+
Start	569	End	1852
Name	OJ991116_16.0421.C45.o1.np	Method	AAT/NAP
Start	569	End	1852
GI	7522209	Score	355
Exons	569..720, 818..1019, 1239..1409, 1765..1852		
GI Descrip.	hypothetical protein T24C20.70 - Arabidopsis thaliana gi\|5541725\|emb\|CAB51066.1\| (AL096856) putative protein [Arabidopsis thaliana]		

Seq. No.	52003	Seq. ID	OJ991116_16.0421.C45
Gene No.	110007	Strand	+
Start	569	End	1852
Name	OJ991116_16.0421.C45.o1.ts	Method	TBLASTX:Soybean

Start	590	End	938
GI	none	Score	138
Exons	590..718, 610..768, 816..938		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110008	Strand	+
Start	604	End	1272
Name	OJ991116_16.0421.C46.o1.gp	Method	AAT/GAP
Start	604	End	1178
GI	14933_1.R1084	Score	894
Exons	604..676, 763..1178		
GI Descrip.	'4769004/gb\|AAD29715.1\|AF140598_1 9.0e-52 (AF140598) ring-box protein 1 [Homo sapiens] >gi_4769006_gb_AAD29716.1_AF140599_1 (AF140599) ring-box protein 1 [Mus musculus] >gi_4809216_gb_AAD30146.1_AF142059_1 (AF142059) RING finger protein [Homo sapiens]'		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110008	Strand	+
Start	604	End	1272
Name	OJ991116_16.0421.C46.o1.np	Method	AAT/NAP
Start	604	End	797
GI	7543891	Score	138
Exons	604..683, 770..797		
GI Descrip.	(AL138639) ring-box protein-like [Arabidopsis thaliana]		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110008	Strand	+
Start	604	End	1272
Name	OJ991116_16.0421.C46.o1.gs	Method	GENSCAN
Start	763	End	1272
GI	none	Score	.8
Exons	763..925, 1211..1272		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110009	Strand	-
Start	1387	End	1796
Name	OJ991116_16.0421.C46.o2.gp	Method	AAT/GAP
Start	1387	End	1796
GI	3387_1.R1084	Score	766
Exons	1387..1796		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o2.tm	Method	TBLASTX:Maize
Start	603	End	1107
GI	none	Score	149
Exons	603..680, 604..681, 760..801, 762..824, 835..900, 863..901, 910..981, 945..974, 1065..1088, 1075..1107		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o2.ts	Method	TBLASTX:Soybean

Start	603	End	801
GI	none	Score	149
Exons	603..680, 604..681, 604..681, 754..801, 762..800		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o1.tm	Method	TBLASTX:Maize
Start	1609	End	1826
GI	none	Score	212
Exons	1609..1758, 1626..1826, 1628..1798		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o2.np	Method	AAT/NAP
Start	1631	End	1796
GI	4886307	Score	200
Exons	1631..1796		
GI Descrip.	(AJ242588) 1-deoxy-d-xylulose-5-phosphate reductoisomerase [Arabidopsis thaliana]		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o1.ts	Method	TBLASTX:Soybean
Start	1637	End	1826
GI	none	Score	119
Exons	1637..1798, 1641..1826		

Seq. No.	52004	Seq. ID	OJ991116_16.0421.C46
Gene No.	110010	Strand	-
Start	1737	End	1826
Name	OJ991116_16.0421.C46.o2.gs	Method	GENSCAN
Start	1737	End	1796
GI	none	Score	.45
Exons	1737..1796		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.gp	Method	AAT/GAP
Start	1	End	673
GI	3387_1.R1084	Score	563
Exons	1..54, 224..329, 410..522, 603..673		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.np	Method	AAT/NAP
Start	1	End	727
GI	4886307	Score	453
Exons	1..55, 225..329, 410..522, 603..727		
GI Descrip.	(AJ242588) 1-deoxy-d-xylulose-5-phosphate reductoisomerase [Arabidopsis thaliana]		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.tm	Method	TBLASTX:Maize
Start	1	End	723
GI	none	Score	64
Exons	1..54, 2..58, 2..85, 219..344, 221..283, 225..338, 399..515, 408..512, 410..514, 601..687, 603..671, 604..684, 691..723		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.ts	Method	TBLASTX:Soybean
Start	2	End	684
GI	none	Score	119
Exons	2..85, 219..344, 229..345, 399..515, 408..500, 410..514, 602..667, 603..668, 604..684		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.tc	Method	TBLASTX:Cress
Start	219	End	671
GI	none	Score	81
Exons	219..344, 225..338, 229..345, 399..515, 408..479, 410..514, 602..670, 603..671		

Seq. No.	52005	Seq. ID	OJ991116_16.0421.C47
Gene No.	110011	Strand	-
Start	1	End	727
Name	OJ991116_16.0421.C47.o1.gs	Method	GENSCAN
Start	225	End	454
GI	none	Score	.73
Exons	225..329, 377..454		

Seq. No.	52006	Seq. ID	OJ991116_16.0421.C52
Gene No.	110012	Strand	-
Start	592	End	883
Name	OJ991116_16.0421.C52.o1.np	Method	AAT/NAP
Start	592	End	883
GI	7522209	Score	151
Exons	592..757, 847..883		
GI Descrip.	hypothetical protein T24C20.70 - Arabidopsis thaliana gi\|5541725\|emb\|CAB51066.1\| (AL096856) putative protein [Arabidopsis thaliana]		

Seq. No.	52006	Seq. ID	OJ991116_16.0421.C52
Gene No.	110012	Strand	-
Start	592	End	883
Name	OJ991116_16.0421.C52.o1.gs	Method	GENSCAN
Start	649	End	757
GI	none	Score	.54
Exons	649..757		

Seq. No.	52007	Seq. ID	OJ991006_18.0421.C8
Gene No.	110013	Strand	+

Start	320	End	661
Name	OJ991006_18.0421.C8.o1.gp	Method	AAT/GAP
Start	320	End	602
GI	LIB3433-014-Q6-K1-A12	Score	489
Exons	320..602		
GI Descrip.	'4539424/emb\|CAB38957.1\| 1.0e-19 (AL049171) steroid sulfotransferase-like protein [Arabidopsis thaliana]'		

Seq. No.	52007	Seq. ID	OJ991006_18.0421.C8
Gene No.	110013	Strand	+
Start	320	End	661
Name	OJ991006_18.0421.C8.o1.gs	Method	GENSCAN
Start	443	End	661
GI	none	Score	.72
Exons	443..661		

Seq. No.	52007	Seq. ID	OJ991006_18.0421.C8
Gene No.	110014	Strand	-
Start	232	End	702
Name	OJ991006_18.0421.C8.o1.np	Method	AAT/NAP
Start	232	End	702
GI	7434975	Score	323
Exons	232..702		
GI Descrip.	hypothetical protein T25K17.90 - Arabidopsis thaliana gi\|4539424\|emb\|CAB38957.1\| (AL049171) steroid sulfotransferase-like protein [Arabidopsis thaliana] gi\|7269479\|emb\|CAB79483.1\| (AL161564) steroid sulfotransferase-like protein [Arabidopsis thaliana]		

Seq. No.	52007	Seq. ID	OJ991006_18.0421.C8
Gene No.	110014	Strand	-
Start	232	End	702
Name	OJ991006_18.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	244	End	645
GI	none	Score	74
Exons	244..366, 245..367, 465..641, 466..645		

Seq. No.	52008	Seq. ID	OJ991006_15.0421.C5
Gene No.	110015	Strand	-
Start	1	End	705
Name	OJ991006_15.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	705
GI	99922	Score	466
Exons	1..25, 191..705		
GI Descrip.	hypothetical protein - soybean gi\|930025\|emb\|CAA31883\| (X13528) ORF (334 AA) [Glycine max]		

Seq. No.	52008	Seq. ID	OJ991006_15.0421.C5
Gene No.	110015	Strand	-
Start	1	End	705
Name	OJ991006_15.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	243	End	548
GI	none	Score	154
Exons	243..548, 250..537		

Seq. No.	52008	Seq. ID	OJ991006_15.0421.C5
Gene No.	110015	Strand	-

Start	1	End	705
Name	OJ991006_15.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	289	End	572
GI	none	Score	119
Exons	289..561, 291..572		

Seq. No.	52008	Seq. ID	OJ991006_15.0421.C5
Gene No.	110015	Strand	-
Start	1	End	705
Name	OJ991006_15.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	336	End	687
GI	none	Score	63
Exons	336..683, 337..411, 436..687		

Seq. No.	52008	Seq. ID	OJ991006_15.0421.C5
Gene No.	110015	Strand	-
Start	1	End	705
Name	OJ991006_15.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	414	End	684
GI	none	Score	123
Exons	414..680, 418..684		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1
Gene No.	110016	Strand	+
Start	2742	End	3176
Name	OJ991116_18.0421.C1.o1.gs	Method	GENSCAN
Start	2742	End	3176
GI	none	Score	.86
Exons	2742..2832, 3097..3176		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1
Gene No.	110017	Strand	-
Start	654	End	4937
Name	OJ991116_18.0421.C1.o1.np	Method	AAT/NAP
Start	654	End	4904
GI	3153821	Score	41
Exons	654..704, 4118..4278, 4786..4904		
GI Descrip.	(AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein [Mus musculus]		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1
Gene No.	110017	Strand	-
Start	654	End	4937
Name	OJ991116_18.0421.C1.o1.gp	Method	AAT/GAP
Start	2594	End	2715
GI	none	Score	214
Exons	2594..2715		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1
Gene No.	110017	Strand	-
Start	654	End	4937
Name	OJ991116_18.0421.C1.o2.gp	Method	AAT/GAP
Start	2978	End	3555
GI	none	Score	1055
Exons	2978..3555		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1

Gene No.	110017	Strand	-
Start	654	End	4937
Name	OJ991116_18.0421.C1.o2.gs	Method	GENSCAN
Start	4006	End	4937
GI	none	Score	.96
Exons	4006..4433, 4448..4937		

Seq. No.	52009	Seq. ID	OJ991116_18.0421.C1
Gene No.	110017	Strand	-
Start	654	End	4937
Name	OJ991116_18.0421.C1.o3.gp	Method	AAT/GAP
Start	4324	End	4780
GI	3761357	Score	870
Exons	4324..4780		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110018	Strand	+
Start	594	End	3770
Name	OJ991116_18.0421.C2.o1.gs	Method	GENSCAN
Start	594	End	1126
GI	none	Score	.91
Exons	594..666, 701..1126		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110018	Strand	+
Start	594	End	3770
Name	OJ991116_18.0421.C2.o1.np	Method	AAT/NAP
Start	594	End	3770
GI	4680341	Score	634
Exons	594..678, 737..1102, 1359..1407, 3728..3770		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110018	Strand	+
Start	594	End	3770
Name	OJ991116_18.0421.C2.o2.gs	Method	GENSCAN
Start	2235	End	3246
GI	none	Score	.76
Exons	2235..2352, 2448..2857, 2971..3112, 3221..3246		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110019	Strand	+
Start	7928	End	9447
Name	OJ991116_18.0421.C2.o4.gs	Method	GENSCAN
Start	7928	End	9447
GI	none	Score	.52
Exons	7928..7975, 8073..8225, 8691..8871, 9239..9447		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110020	Strand	+
Start	15415	End	20912
Name	OJ991116_18.0421.C2.o3.np	Method	AAT/NAP
Start	15415	End	17325
GI	7288022	Score	95
Exons	15415..15446, 16919..17008, 17089..17325		
GI Descrip.	(AL138644) putative protein [Arabidopsis thaliana]		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110020	Strand	+
Start	15415	End	20912
Name	OJ991116_18.0421.C2.o4.gp	Method	AAT/GAP
Start	16431	End	17307
GI	none	Score	1123
Exons	16431..16790, 16900..17078, 17195..17307		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110020	Strand	+
Start	15415	End	20912
Name	OJ991116_18.0421.C2.o6.gs	Method	GENSCAN
Start	16519	End	20912
GI	none	Score	.59
Exons	16519..16790, 16900..17078, 17195..17349, 18543..18626, 20802..20912		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110021	Strand	-
Start	3842	End	7428
Name	OJ991116_18.0421.C2.o2.np	Method	AAT/NAP
Start	3842	End	7422
GI	7300314	Score	418
Exons	3842..3976, 4092..4167, 4269..4321, 4403..4464, 4533..4643, 4722..4758, 4819..4888, 4998..5150, 5314..5392, 5507..5619, 5699..5830, 6276..6392, 6475..6569, 7318..7422		
GI Descrip.	(AE003719) CG18012 gene product [Drosophila melanogaster]		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110021	Strand	-
Start	3842	End	7428
Name	OJ991116_18.0421.C2.o2.gp	Method	AAT/GAP
Start	4126	End	5026
GI	uC-osroM202022c08b1	Score	791
Exons	4126..4167, 4269..4321, 4403..4464, 4533..4643, 4722..4888, 4998..5026		
GI Descrip.	'1800223 2.0e-31 (U65018) mannosyltransferase [Dictyostelium discoideum]'		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110021	Strand	-
Start	3842	End	7428
Name	OJ991116_18.0421.C2.o3.gs	Method	GENSCAN
Start	4314	End	7428
GI	none	Score	.86
Exons	4314..4321, 4722..4888, 5507..5596, 5682..5830, 6276..6410, 7318..7428		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	964	End	1371
GI	none	Score	60
Exons	964..1038, 979..1089, 980..1090, 1031..1090, 1038..1091, 1136..1225, 1156..1224, 1160..1225, 1161..1226, 1300..1335, 1313..1339, 1314..1349, 1333..1371		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	3839	End	4621
GI	none	Score	92
Exons	3839..3976, 3840..3977, 4086..4166, 4102..4167, 4271..4321, 4272..4322, 4392..4466, 4400..4474, 4531..4620, 4532..4621		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	3844	End	5041
GI	none	Score	172
Exons	3844..3975, 3845..3982, 3846..3977, 3847..3978, 4086..4166, 4089..4121, 4093..4167, 4094..4168, 4269..4322, 4270..4323, 4271..4321, 4392..4466, 4400..4474, 4531..4644, 4532..4657, 4535..4645, 4536..4655, 4720..4812, 4720..4812, 4816..4887, 4818..4892, 4819..4911, 4997..5041, 5021..5041		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	4283	End	4888
GI	none	Score	64
Exons	4283..4321, 4284..4322, 4392..4466, 4400..4474, 4531..4644, 4532..4645, 4714..4887, 4720..4887, 4721..4888		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	5042	End	5401
GI	none	Score	89
Exons	5042..5110, 5192..5254, 5193..5255, 5200..5256, 5326..5385, 5326..5388, 5327..5392, 5327..5401		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	5727	End	7410
GI	none	Score	104
Exons	5727..5831, 5734..5832, 5735..5833, 5775..5834, 6276..6410, 6276..6410, 6277..6411, 6481..6540, 6484..6540, 6485..6541, 6696..6734, 6697..6735, 6698..6733, 6699..6740, 7310..7402, 7318..7410		

Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o3.gp	Method	AAT/GAP
Start	11700	End	12272
GI	none	Score	1131

Exons	11700..12272		
Seq. No.	52010	Seq. ID	OJ991116_18.0421.C2
Gene No.	110022	Strand	-
Start	12095	End	14489
Name	OJ991116_18.0421.C2.o5.gs	Method	GENSCAN
Start	12095	End	14489
GI	none	Score	.61
Exons	12095..12643, 13392..13423, 13649..13708, 14372..14489		
Seq. No.	52011	Seq. ID	OJ991116_18.0421.C3
Gene No.	110023	Strand	-
Start	1842	End	4003
Name	OJ991116_18.0421.C3.o1.gs	Method	GENSCAN
Start	1842	End	2689
GI	none	Score	.64
Exons	1842..1865, 1914..1958, 2414..2689		
Seq. No.	52011	Seq. ID	OJ991116_18.0421.C3
Gene No.	110023	Strand	-
Start	1842	End	4003
Name	OJ991116_18.0421.C3.o1.np	Method	AAT/NAP
Start	2082	End	4003
GI	6907086	Score	1596
Exons	2082..2274, 2379..2544, 2667..2779, 3011..3197, 3255..4003		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	52011	Seq. ID	OJ991116_18.0421.C3
Gene No.	110023	Strand	-
Start	1842	End	4003
Name	OJ991116_18.0421.C3.o2.gs	Method	GENSCAN
Start	3235	End	3855
GI	none	Score	1
Exons	3235..3855		
Seq. No.	52011	Seq. ID	OJ991116_18.0421.C3
Gene No.	110024	Strand	-
Start	4709	End	6658
Name	OJ991116_18.0421.C3.o2.np	Method	AAT/NAP
Start	4709	End	6658
GI	4680186	Score	210
Exons	4709..5127, 5629..5703, 6626..6658		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	52011	Seq. ID	OJ991116_18.0421.C3
Gene No.	110024	Strand	-
Start	4709	End	6658
Name	OJ991116_18.0421.C3.o3.gs	Method	GENSCAN
Start	5257	End	6317
GI	none	Score	.71
Exons	5257..5427, 5536..5606, 6245..6317		
Seq. No.	52012	Seq. ID	OJ991116_18.0421.C5
Gene No.	110025	Strand	+
Start	846	End	1663
Name	OJ991116_18.0421.C5.o1.gs	Method	GENSCAN
Start	846	End	1663

GI	none	Score	.42
Exons	846..1114, 1311..1355, 1438..1663		

Seq. No.	52012	Seq. ID	OJ991116_18.0421.C5
Gene No.	110026	Strand	-
Start	3359	End	4628
Name	OJ991116_18.0421.C5.o2.gs	Method	GENSCAN
Start	3359	End	4628
GI	none	Score	.61
Exons	3359..3375, 4562..4628		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110027	Strand	+
Start	1535	End	5211
Name	OJ991116_18.0421.C7.o1.np	Method	AAT/NAP
Start	1535	End	2879
GI	2130152	Score	89
Exons	1535..1791, 2834..2879		
GI Descrip.	hypothetical protein 173 - maize chloroplast gi\|902272\|emb\|CAA60337\| (X86563) ORF173 [Zea mays] gi\|902300\|emb\|CAA60364\| (X86563) ORF173 [Zea mays]		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110027	Strand	+
Start	1535	End	5211
Name	OJ991116_18.0421.C7.o1.gs	Method	GENSCAN
Start	2122	End	5211
GI	none	Score	.75
Exons	2122..2693, 2908..3148, 4093..4271, 4430..4785, 4872..5211		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110028	Strand	+
Start	10675	End	11115
Name	OJ991116_18.0421.C7.o3.gs	Method	GENSCAN
Start	10675	End	11115
GI	none	Score	.81
Exons	10675..11115		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110029	Strand	-
Start	9627	End	11373
Name	OJ991116_18.0421.C7.o2.np	Method	AAT/NAP
Start	9627	End	11373
GI	6721555	Score	884
Exons	9627..9801, 9973..10251, 10657..10856, 10893..11159, 11318..11373		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi\|6815080\|dbj\|BAA90366.1\| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110029	Strand	-
Start	9627	End	11373
Name	OJ991116_18.0421.C7.o3.np	Method	AAT/NAP
Start	11268	End	11367
GI	5777617	Score	91
Exons	11268..11367		

GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	2264	End	2567
GI	none	Score	258
Exons	2264..2479, 2265..2567		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	2328	End	2657
GI	none	Score	59
Exons	2328..2378, 2391..2606, 2598..2657		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o3.tc	Method	TBLASTX:Cress
Start	2902	End	4196
GI	none	Score	254
Exons	2902..3153, 2916..3023, 2941..3117, 4092..4196		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	4882	End	5202
GI	none	Score	331
Exons	4882..5202, 4884..5180		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	9921	End	10091
GI	none	Score	130
Exons	9921..10091, 9940..10080, 9957..10091		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	9921	End	10221
GI	none	Score	150
Exons	9921..10091, 9922..10083, 10144..10221, 10190..10210		

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	10628	End	10908
GI	none	Score	105
Exons	10628..10750, 10639..10785, 10659..10781, 10663..10800,		

10674..10799, 10762..10890, 10789..10908, 10797..10898

Seq. No.	52013	Seq. ID	OJ991116_18.0421.C7
Gene No.	110030	Strand	-
Start	11740	End	13372
Name	OJ991116_18.0421.C7.o4.gs	Method	GENSCAN
Start	11740	End	13372
GI	none	Score	.86
Exons	11740..11881, 12856..13004, 13367..13372		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110031	Strand	+
Start	250	End	4007
Name	OJ991116_18.0421.C8.o1.gs	Method	GENSCAN
Start	250	End	4007
GI	none	Score	.48
Exons	250..377, 1684..1861, 2648..2810, 3621..3667, 3865..4007		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110032	Strand	+
Start	7218	End	7631
Name	OJ991116_18.0421.C8.o2.gs	Method	GENSCAN
Start	7218	End	7631
GI	none	Score	.76
Exons	7218..7631		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110033	Strand	+
Start	7814	End	8186
Name	OJ991116_18.0421.C8.o2.gp	Method	AAT/GAP
Start	7814	End	8186
GI	none	Score	587
Exons	7814..8186		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110034	Strand	+
Start	11301	End	12330
Name	OJ991116_18.0421.C8.o1.np	Method	AAT/NAP
Start	11301	End	12330
GI	7485231	Score	349
Exons	11301..12330		
GI Descrip.	hypothetical protein A_IG002N01.30 - Arabidopsis thaliana (fragment) gi\|2191151\|gb\|AAB61038.1\| (AF007269) contains similarity to membrane associated salt-inducible protein [Arabidopsis thaliana]		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110035	Strand	-
Start	6171	End	6254
Name	OJ991116_18.0421.C8.o1.gp	Method	AAT/GAP
Start	6171	End	6254
GI	5867_1.R1084	Score	117
Exons	6171..6254		
GI Descrip.	'464986/sp\|P35132\|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis		

thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110036	Strand	-
Start	7812	End	8207
Name	OJ991116_18.0421.C8.o3.gp	Method	AAT/GAP
Start	7812	End	8207
GI	none	Score	586
Exons	7812..8207		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110037	Strand	-
Start	8259	End	9711
Name	OJ991116_18.0421.C8.o3.gs	Method	GENSCAN
Start	8259	End	9711
GI	none	Score	.69
Exons	8259..8712, 8812..9018, 9659..9711		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110038	Strand	
Start	11275	End	11795
Name	OJ991116_18.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	11275	End	11795
GI	none	Score	449
Exons	11275..11379, 11284..11793, 11455..11496, 11629..11775, 11640..11795		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110039	Strand	
Start	12010	End	12375
Name	OJ991116_18.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	12010	End	12375
GI	none	Score	252
Exons	12010..12348, 12036..12335, 12055..12375		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110039	Strand	
Start	12010	End	12375
Name	OJ991116_18.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	12067	End	12348
GI	none	Score	207
Exons	12067..12348		

Seq. No.	52014	Seq. ID	OJ991116_18.0421.C8
Gene No.	110039	Strand	
Start	12010	End	12375
Name	OJ991116_18.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	12075	End	12348
GI	none	Score	204
Exons	12075..12335, 12076..12348		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110040	Strand	+
Start	624	End	6364
Name	OJ991116_18.0421.C9.o1.gs	Method	GENSCAN

Start	624	End	6364
GI	none	Score	.82
Exons	624..638, 1817..2254, 5147..6364		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110040	Strand	+
Start	624	End	6364
Name	OJ991116_18.0421.C9.o1.gp	Method	AAT/GAP
Start	1794	End	6263
GI	28094_1.R1084	Score	2968
Exons	1794..2254, 5147..6263		
GI Descrip.	'3075394 0.0e+00 (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis thaliana] >gi_3559809_emb_CAA09311_ (AJ010713) fiddlehead protein [Arabidopsis thaliana]'		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110040	Strand	+
Start	624	End	6364
Name	OJ991116_18.0421.C9.o1.np	Method	AAT/NAP
Start	1838	End	6355
GI	3075394	Score	1927
Exons	1838..2254, 5147..6355		
GI Descrip.	(AC004484) beta-ketoacyl-CoA synthase (FIDDLEHEAD) [Arabidopsis thaliana] gi\|3559809\|emb\|CAA09311\| (AJ010713) fiddlehead protein [Arabidopsis thaliana]		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110041	Strand	+
Start	8178	End	20829
Name	OJ991116_18.0421.C9.o2.gs	Method	GENSCAN
Start	8178	End	12621
GI	none	Score	.86
Exons	8178..8263, 9068..9161, 9260..11128, 11214..11273, 11792..11861, 12464..12621		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110041	Strand	+
Start	8178	End	20829
Name	OJ991116_18.0421.C9.o2.np	Method	AAT/NAP
Start	9380	End	20829
GI	4204793	Score	2049
Exons	9380..9532, 14896..15138, 15316..15491, 15577..15741, 15834..16129, 16248..16564, 16661..16884, 16975..18867, 19348..19659, 20743..20829		
GI Descrip.	(U52079) P-glycoprotein [Solanum tuberosum]		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110041	Strand	+
Start	8178	End	20829
Name	OJ991116_18.0421.C9.o2.gp	Method	AAT/GAP
Start	12103	End	12889
GI	none	Score	988
Exons	12103..12134, 12287..12381, 12464..12889		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110041	Strand	+
Start	8178	End	20829

Name	OJ991116_18.0421.C9.o3.gs	Method	GENSCAN
Start	14111	End	19695
GI	none	Score	.93
Exons	14111..14464, 14485..15078, 15172..15226, 15316..15491, 15577..15741, 15834..16201, 16248..16884, 16975..18867, 19348..19695		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110042	Strand	+
Start	21805	End	27766
Name	OJ991116_18.0421.C9.o4.gs	Method	GENSCAN
Start	21805	End	27766
GI	none	Score	.58
Exons	21805..21976, 24027..24505, 24786..25163, 25376..25467, 25660..26259, 27613..27766		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110042	Strand	+
Start	21805	End	27766
Name	OJ991116_18.0421.C9.o3.np	Method	AAT/NAP
Start	23858	End	27101
GI	7485989	Score	413
Exons	23858..24392, 26990..27101		
GI Descrip.	hypothetical protein F22O13.27 - Arabidopsis thaliana gi\|3063465\|gb\|AAC14053.1\| (AC003981) F22O13.27 [Arabidopsis thaliana]		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110042	Strand	+
Start	21805	End	27766
Name	OJ991116_18.0421.C9.o3.gp	Method	AAT/GAP
Start	25942	End	26443
GI	uC-osflcyp122g03b1	Score	988
Exons	25942..26443		
GI Descrip.	'3063465 2.0e-09 (AC003981) F22O13.27 [Arabidopsis thaliana]'		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	1823	End	6346
GI	none	Score	397
Exons	1823..2113, 1870..2112, 2180..2257, 2183..2257, 5144..5275, 5146..5253, 5291..5956, 5299..5469, 5524..5952, 6010..6063, 6014..6268, 6151..6261, 6323..6346		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	1841	End	6373
GI	none	Score	501
Exons	1841..2257, 1873..2226, 5131..5469, 5132..5959, 5524..5922, 6010..6063, 6014..6268, 6145..6261, 6323..6373		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-

Start	27950	End	30380
Name	OJ991116_18.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	1853	End	6364
GI	none	Score	608
Exons	1853..2257, 1867..2226, 2183..2257, 5131..5238, 5135..5467, 5141..6268, 5146..5469, 5521..6063, 6145..6363, 6323..6364		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	6140	End	6268
GI	none	Score	210
Exons	6140..6268, 6145..6261, 6173..6262		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o8.tm	Method	TBLASTX:Maize
Start	9341	End	9739
GI	none	Score	106
Exons	9341..9421, 9437..9592, 9454..9567, 9508..9669, 9508..9642, 9509..9739		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o7.tm	Method	TBLASTX:Maize
Start	9826	End	10099
GI	none	Score	275
Exons	9826..10098, 9830..10099		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o4.tc	Method	TBLASTX:Cress
Start	9860	End	10195
GI	none	Score	207
Exons	9860..10195		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o3.ts	Method	TBLASTX:Soybean
Start	9947	End	10645
GI	none	Score	254
Exons	9947..10195, 9949..10194, 10238..10507, 10565..10645		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	10100	End	10536
GI	none	Score	114
Exons	10100..10204, 10101..10196, 10129..10200, 10238..10531, 10240..10332, 10396..10536		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	10121	End	10552
GI	none	Score	77
Exons	10121..10195, 10238..10552		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o5.tm	Method	TBLASTX:Maize
Start	10540	End	10983
GI	none	Score	407
Exons	10540..10983, 10544..10981		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o5.tc	Method	TBLASTX:Cress
Start	10685	End	11005
GI	none	Score	194
Exons	10685..11005, 10801..10995		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	15311	End	19629
GI	none	Score	171
Exons	15311..15493, 15315..15494, 15315..15446, 15836..16087, 15837..16127, 15837..16073, 16210..16344, 16227..16568, 16273..16566, 16353..16565, 16354..16569, 16617..16793, 16657..16887, 16657..16887, 16975..17262, 16975..17256, 16977..17021, 16977..17240, 17109..17252, 17611..18021, 18064..18435, 18472..18543, 18472..18543, 18613..18870, 18613..18870, 19344..19604, 19347..19601, 19348..19629, 19348..19626		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o4.ts	Method	TBLASTX:Soybean
Start	15840	End	18543
GI	none	Score	140
Exons	15840..16115, 16249..16470, 17704..18021, 18063..18389, 18064..18417, 18468..18515, 18469..18543		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	16299	End	19626
GI	none	Score	255
Exons	16299..16568, 16300..16569, 16660..16887, 16975..17253, 16975..17115, 17109..17234, 18469..18543, 18613..18870, 19347..19601, 19348..19626		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	16480	End	19763
GI	none	Score	98
Exons	16480..16566, 16482..16601, 16657..16887, 16707..16850, 16975..17055, 16977..17018, 17053..17289, 18613..18870, 19347..19418, 19348..19428, 19483..19641, 19734..19763		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	16977	End	19593
GI	none	Score	272
Exons	16977..17216, 16978..17217, 19350..19589, 19351..19593		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o6.tm	Method	TBLASTX:Maize
Start	17653	End	18417
GI	none	Score	148
Exons	17653..17967, 18064..18417		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o3.tc	Method	TBLASTX:Cress
Start	23855	End	24136
GI	none	Score	326
Exons	23855..24136, 23860..24132		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o10.tm	Method	TBLASTX:Maize
Start	23858	End	24037
GI	none	Score	187
Exons	23858..24037, 23860..24033		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o5.ts	Method	TBLASTX:Soybean
Start	23858	End	24118
GI	none	Score	111
Exons	23858..23974, 23990..24118, 23995..24117		

Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o9.tm	Method	TBLASTX:Maize
Start	24804	End	25474
GI	none	Score	156

Exons	24804..24902, 24811..24975, 24815..24916, 24824..24982, 25034..25165, 25103..25162, 25373..25474		
Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o5.gs	Method	GENSCAN
Start	27950	End	30380
GI	none	Score	.88
Exons	27950..28021, 28343..28450, 28552..28927, 29009..29166, 29252..29372, 29449..29667, 29759..29858, 29946..30156, 30310..30380		
Seq. No.	52015	Seq. ID	OJ991116_18.0421.C9
Gene No.	110043	Strand	-
Start	27950	End	30380
Name	OJ991116_18.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	29451	End	30162
GI	none	Score	133
Exons	29451..29648, 29454..29666, 29464..29694, 29758..29865, 29947..30162, 30004..30162		
Seq. No.	52016	Seq. ID	OJ991116_18.0421.C10
Gene No.	110044	Strand	-
Start	1	End	703
Name	OJ991116_18.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	703
GI	7106515	Score	588
Exons	1..703		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		
Seq. No.	52016	Seq. ID	OJ991116_18.0421.C10
Gene No.	110044	Strand	-
Start	1	End	703
Name	OJ991116_18.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	12	End	158
GI	none	Score	109
Exons	12..158, 22..153		
Seq. No.	52016	Seq. ID	OJ991116_18.0421.C10
Gene No.	110044	Strand	-
Start	1	End	703
Name	OJ991116_18.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	39	End	335
GI	none	Score	149
Exons	39..335, 40..255, 48..314		
Seq. No.	52016	Seq. ID	OJ991116_18.0421.C10
Gene No.	110044	Strand	-
Start	1	End	703
Name	OJ991116_18.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	159	End	702
GI	none	Score	175
Exons	159..413, 160..411, 456..701, 473..547, 474..548, 508..549, 604..702		

Seq. No.	52016	Seq. ID	OJ991116_18.0421.C10
Gene No.	110044	Strand	-
Start	1	End	703
Name	OJ991116_18.0421.C10.o1.gs	Method	GENSCAN
Start	209	End	336
GI	none	Score	.45
Exons	209..336		

Seq. No.	52017	Seq. ID	OJ991116_18.0421.C14
Gene No.	110045	Strand	-
Start	421	End	600
Name	OJ991116_18.0421.C14.o1.gs	Method	GENSCAN
Start	421	End	600
GI	none	Score	.58
Exons	421..600		

Seq. No.	52018	Seq. ID	OJ991206_03.0419.C1
Gene No.	110046	Strand	+
Start	140	End	2434
Name	OJ991206_03.0419.C1.o1.gs	Method	GENSCAN
Start	140	End	2434
GI	none	Score	.77
Exons	140..615, 725..898, 995..1105, 1190..1262, 1357..1455, 2246..2434		

Seq. No.	52018	Seq. ID	OJ991206_03.0419.C1
Gene No.	110047	Strand	+
Start	2501	End	4658
Name	OJ991206_03.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	542	End	1064
GI	none	Score	60
Exons	542..622, 711..893, 761..886, 993..1064		

Seq. No.	52018	Seq. ID	OJ991206_03.0419.C1
Gene No.	110047	Strand	+
Start	2501	End	4658
Name	OJ991206_03.0419.C1.o2.np	Method	AAT/NAP
Start	2501	End	4658
GI	5922620	Score	160
Exons	2501..2678, 3315..3385, 3745..3913, 4594..4658		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6016853\|dbj\|BAA85196.1\| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52019	Seq. ID	OJ991206_03.0419.C2
Gene No.	110048	Strand	+
Start	143	End	1337
Name	OJ991206_03.0419.C2.o1.gs	Method	GENSCAN
Start	143	End	1337
GI	none	Score	.88
Exons	143..242, 1215..1337		

Seq. No.	52019	Seq. ID	OJ991206_03.0419.C2
Gene No.	110049	Strand	-

Start	137	End	215
Name	OJ991206_03.0419.C2.o1.np	Method	AAT/NAP
Start	137	End	215
GI	6630699	Score	85
Exons	137..215		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	52019	Seq. ID	OJ991206_03.0419.C2
Gene No.	110050	Strand	-
Start	964	End	1446
Name	OJ991206_03.0419.C2.o2.np	Method	AAT/NAP
Start	964	End	1446
GI	5852093	Score	65
Exons	964..1081, 1411..1446		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	52020	Seq. ID	OJ991206_03.0419.C4
Gene No.	110051	Strand	+
Start	4642	End	4864
Name	OJ991206_03.0419.C4.o2.np	Method	AAT/NAP
Start	4642	End	4864
GI	7340905	Score	118
Exons	4642..4864		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52020	Seq. ID	OJ991206_03.0419.C4
Gene No.	110052	Strand	-
Start	1110	End	1207
Name	OJ991206_03.0419.C4.o1.np	Method	AAT/NAP
Start	1110	End	1207
GI	5852084	Score	69
Exons	1110..1207		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52020	Seq. ID	OJ991206_03.0419.C4
Gene No.	110053	Strand	-
Start	4687	End	6186
Name	OJ991206_03.0419.C4.o2.gs	Method	GENSCAN
Start	4687	End	6186
GI	none	Score	.62
Exons	4687..4719, 5439..5561, 6178..6186		

Seq. No.	52021	Seq. ID	OJ991206_03.0419.C5
Gene No.	110054	Strand	-
Start	366	End	1977
Name	OJ991206_03.0419.C5.o1.gs	Method	GENSCAN
Start	366	End	1977
GI	none	Score	.59
Exons	366..482, 748..922, 954..1065, 1296..1418, 1891..1977		

Seq. No.	52022	Seq. ID	OJ991206_03.0419.C6
Gene No.	110055	Strand	+
Start	1474	End	3721
Name	OJ991206_03.0419.C6.o1.gs	Method	GENSCAN
Start	1474	End	3619

GI	none	Score	.57
Exons	1474..1589, 2064..2208, 3158..3222, 3361..3619		

Seq. No.	52022	Seq. ID	OJ991206_03.0419.C6
Gene No.	110055	Strand	+
Start	1474	End	3721
Name	OJ991206_03.0419.C6.o1.np	Method	AAT/NAP
Start	2861	End	3721
GI	6907087	Score	506
Exons	2861..3222, 3268..3721		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52023	Seq. ID	OJ991206_03.0419.C7
Gene No.	110056	Strand	+
Start	1	End	177
Name	OJ991206_03.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	177
GI	6907087	Score	126
Exons	1..177		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52023	Seq. ID	OJ991206_03.0419.C7
Gene No.	110057	Strand	-
Start	553	End	1193
Name	OJ991206_03.0419.C7.o2.np	Method	AAT/NAP
Start	553	End	1193
GI	4680186	Score	109
Exons	553..761, 1159..1193		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110058	Strand	+
Start	1	End	4734
Name	OJ991206_03.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	4734
GI	7489805	Score	1948
Exons	1..23, 767..1837, 3014..3250, 3506..4734		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi\|4206306\|gb\|AAD11615.1\| (AF049110) prpol [Zea mays]		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110058	Strand	+
Start	1	End	4734
Name	OJ991206_03.0419.C9.o1.gp	Method	AAT/GAP
Start	1837	End	2085
GI	LIB3475-004-P1-K2-A5	Score	370
Exons	1837..2085		
GI Descrip.	'5777612/emb\|AJ245900.1\|OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282

Name	OJ991206_03.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	755	End	1092
GI	none	Score	346
Exons	755..961, 768..986, 769..1092, 1011..1079		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	768	End	1185
GI	none	Score	414
Exons	768..1079, 769..1185, 868..1167		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	811	End	1278
GI	none	Score	292
Exons	811..1278, 861..1004, 1119..1196		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	1461	End	1833
GI	none	Score	302
Exons	1461..1679, 1462..1833, 1717..1737		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	1866	End	3000
GI	none	Score	118
Exons	1866..1988, 1866..1988, 1868..1990, 1880..1996, 1968..2045, 1981..2067, 1984..2067, 2467..2589, 2468..2587, 2468..2596, 2469..2699, 2481..2597, 2569..2706, 2582..2707, 2585..2710, 2595..2711, 2756..2878, 2762..2878, 2770..2886, 2770..2880, 2858..2995, 2871..2996, 2874..2999, 2884..3000		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o4.tw	Method	TBLASTX:Wheat
Start	3496	End	3924
GI	none	Score	231
Exons	3496..3924		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	3510	End	3780
GI	none	Score	208
Exons	3510..3758, 3511..3780		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	3781	End	7711
GI	none	Score	334
Exons	3781..4143, 3873..3932, 3954..4142, 7496..7711, 7537..7707		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o3.ts	Method	TBLASTX:Soybean
Start	3784	End	4158
GI	none	Score	96
Exons	3784..3924, 3940..4158		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o5.tw	Method	TBLASTX:Wheat
Start	3949	End	7780
GI	none	Score	114
Exons	3949..4194, 7514..7780, 7534..7668		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	4174	End	4416
GI	none	Score	205
Exons	4174..4416, 4179..4415		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	4225	End	8260
GI	none	Score	67
Exons	4225..4386, 7772..8161, 7774..8028, 7775..8071, 8170..8229, 8171..8260		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	4258	End	8164
GI	none	Score	66
Exons	4258..4383, 7784..8164, 7840..8031, 8027..8134		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o2.gs	Method	GENSCAN
Start	5526	End	6574
GI	none	Score	.5
Exons	5526..5550, 5944..6226, 6280..6574		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o2.np	Method	AAT/NAP
Start	5628	End	10282
GI	6598522	Score	447
Exons	5628..5655, 7512..8152, 10215..10282		
GI Descrip.	(AC006194) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o3.gs	Method	GENSCAN
Start	7151	End	9557
GI	none	Score	.54
Exons	7151..7233, 7567..7694, 7932..8131, 8154..8269, 8705..8979, 9135..9557		

Seq. No.	52024	Seq. ID	OJ991206_03.0419.C9
Gene No.	110059	Strand	+
Start	5526	End	10282
Name	OJ991206_03.0419.C9.o4.ts	Method	TBLASTX:Soybean
Start	7514	End	7771
GI	none	Score	197
Exons	7514..7771, 7534..7770		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o1.np	Method	AAT/NAP
Start	1128	End	4147
GI	7267528	Score	1763
Exons	1128..1408, 1527..3629, 3774..4147		
GI Descrip.	(AL161513) receptor protein kinase-like protein [Arabidopsis thaliana] gi\|7321074\|emb\|CAB82121.1\| (AL161813) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1131	End	1860
GI	none	Score	84
Exons	1131..1268, 1302..1409, 1315..1410, 1528..1692, 1529..1681, 1690..1740, 1727..1858, 1729..1860		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1314	End	4179
GI	none	Score	76
Exons	1314..1409, 1315..1398, 1588..1692, 1592..1690, 1768..1911, 1948..2049, 1955..2050, 2338..2541, 2341..2535, 2344..2529, 2344..2541, 2344..2541, 2353..2535, 2371..2643, 2404..2535, 2536..2970, 2542..2796, 2545..2847, 2560..3123, 2560..3057,		

2563..3453, 2563..3144, 2575..2682, 2578..2772, 2627..2800,
2629..3144, 2639..2887, 2642..2872, 2695..3126, 2717..2872,
2783..2911, 3025..3129, 3076..3732, 3125..3316, 3142..3708,
3145..3195, 3208..3510, 3211..3366, 3271..3582, 3292..3369,
3334..3492, 3343..3654, 3415..3564, 3424..3726, 3424..3483,
3433..4068, 3445..3633, 3487..4179, 3487..3798, 3553..3708,
3559..3870, 3568..3642, 3578..3712, 3628..3942, 3670..3864,
3697..4179, 3697..4017, 3784..4086, 3793..4170, 3796..3903,
3868..4092, 3868..3918, 3883..4068, 3916..4173, 3938..4171,
3940..4056, 3994..4059

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	1356	End	4092
GI	none	Score	127
Exons	1356..1409, 1528..1692, 1529..1690, 1690..2109, 1712..1882, 1735..2100, 2266..2316, 2344..2421, 2351..2410, 2362..2523, 2422..2535, 2428..2553, 2560..2739, 2644..2712, 2647..2811, 2698..2883, 3067..3315, 3220..3366, 3415..3528, 3628..3816, 3697..3888, 3775..3960, 3904..4092		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1567	End	1902
GI	none	Score	160
Exons	1567..1692, 1690..1902		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o2.np	Method	AAT/NAP
Start	1797	End	4560
GI	7434428	Score	775
Exons	1797..3861, 4327..4466, 4514..4560		
GI Descrip.	protein kinase homolog F6H11.160 - Arabidopsis thaliana gi\|2827714\|emb\|CAA16687.1\| (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	2344	End	4179
GI	none	Score	57
Exons	2344..2535, 2429..2521, 2542..2835, 2587..2919, 2659..2973, 2803..3114, 2881..3147, 2947..3144, 3145..3366, 3160..3474, 3232..3549, 3334..3630, 3454..3732, 3520..3846, 3581..3760, 3808..4095, 3869..4030, 3886..4179		

Seq. No.	52025	Seq. ID	OJ991206_03.0419.C10
Gene No.	110060	Strand	-
Start	1128	End	4560
Name	OJ991206_03.0419.C10.o2.tm	Method	TBLASTX:Maize

Start	2353	End	4173
GI	none	Score	111
Exons	2353..2949, 2354..2548, 2612..2872, 2683..3093, 2755..3141, 2762..2872, 2992..3144, 3145..3312, 3238..3366, 3289..3471, 3415..3549, 3475..3882, 3649..3834, 3664..4095, 3775..4173, 3910..4170, 3937..4095		

Seq. No.	52026	Seq. ID	OJ991206_03.0419.C12
Gene No.	110061	Strand	-
Start	754	End	6710
Name	OJ991206_03.0419.C12.o1.gs	Method	GENSCAN
Start	754	End	6710
GI	none	Score	.5
Exons	754..912, 1356..1499, 3869..4278, 4509..4743, 5667..5743, 5909..5988, 6275..6400, 6523..6710		

Seq. No.	52026	Seq. ID	OJ991206_03.0419.C12
Gene No.	110062	Strand	-
Start	8235	End	9543
Name	OJ991206_03.0419.C12.o1.np	Method	AAT/NAP
Start	8235	End	9543
GI	5777617	Score	78
Exons	8235..8372, 9501..9543		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o4.tw	Method	TBLASTX:Wheat
Start	255	End	642
GI	none	Score	354
Exons	255..641, 266..640, 379..642		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o1.np	Method	AAT/NAP
Start	261	End	4165
GI	6539553	Score	6711
Exons	261..4165		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi\|6539590\|dbj\|BAA88206.1\| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	390	End	703
GI	none	Score	366
Exons	390..701, 398..703, 400..702		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o1.tm	Method	TBLASTX:Maize

Start	1202	End	1524
GI	none	Score	268
Exons	1202..1456, 1209..1523, 1229..1522, 1357..1524		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o5.ts	Method	TBLASTX:Soybean
Start	1551	End	1937
GI	none	Score	88
Exons	1551..1706, 1689..1937		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o5.tw	Method	TBLASTX:Wheat
Start	1656	End	1994
GI	none	Score	278
Exons	1656..1994, 1727..1867, 1788..1973, 1891..1974		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	1851	End	2423
GI	none	Score	224
Exons	1851..2159, 1934..2125, 1980..2135, 2178..2423		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	1947	End	2372
GI	none	Score	193
Exons	1947..2171, 1955..2125, 2172..2372, 2180..2218		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o2.tc	Method	TBLASTX:Cress
Start	1980	End	2372
GI	none	Score	116
Exons	1980..2162, 2175..2372		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	1995	End	2750
GI	none	Score	624
Exons	1995..2459, 2003..2482, 2503..2733, 2517..2750, 2533..2730, 2591..2749		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o1.ts	Method	TBLASTX:Soybean

Start	2670	End	3134
GI	5509260	Score	382
Exons	2670..3134, 2771..2839, 2888..2983, 3056..3115		
GI Descrip.	-		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	2763	End	3023
GI	none	Score	286
Exons	2763..3023, 2765..2842		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	2805	End	3269
GI	none	Score	355
Exons	2805..3269, 2940..3122		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o3.tw	Method	TBLASTX:Wheat
Start	2805	End	3362
GI	none	Score	319
Exons	2805..3149, 2952..3125, 3144..3362, 3218..3340		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	3201	End	3548
GI	none	Score	309
Exons	3201..3449, 3203..3547, 3204..3548		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o5.tm	Method	TBLASTX:Maize
Start	3360	End	3698
GI	none	Score	290
Exons	3360..3683, 3366..3698, 3374..3697		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165
Name	OJ991206_03.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	3554	End	4027
GI	none	Score	92
Exons	3554..3625, 3555..3629, 3556..3627, 3644..3700, 3645..3701, 3693..3950, 3697..3996, 3698..3994, 3700..4023, 3701..4027		

Seq. No.	52027	Seq. ID	OJ991206_03.0419.C13
Gene No.	110063	Strand	+
Start	261	End	4165

Name	OJ991206_03.0419.C13.o4.ts	Method	TBLASTX:Soybean
Start	3576	End	3901
GI	none	Score	83
Exons	3576..3674, 3587..3667, 3700..3822, 3701..3901		

Seq. No.	52028	Seq. ID	OJ991206_03.0419.C14
Gene No.	110064	Strand	-
Start	1151	End	1484
Name	OJ991206_03.0419.C14.o1.gs	Method	GENSCAN
Start	1151	End	1369
GI	none	Score	.67
Exons	1151..1369		

Seq. No.	52028	Seq. ID	OJ991206_03.0419.C14
Gene No.	110064	Strand	-
Start	1151	End	1484
Name	OJ991206_03.0419.C14.o1.np	Method	AAT/NAP
Start	1151	End	1484
GI	4262228	Score	359
Exons	1151..1484		
GI Descrip.	(AC006200) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	52028	Seq. ID	OJ991206_03.0419.C14
Gene No.	110064	Strand	-
Start	1151	End	1484
Name	OJ991206_03.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1301	End	1483
GI	none	Score	111
Exons	1301..1405, 1301..1405, 1302..1406, 1303..1413, 1303..1413, 1305..1421, 1406..1483, 1407..1448, 1408..1482, 1412..1483		

Seq. No.	52029	Seq. ID	OJ991206_03.0419.C17
Gene No.	110065	Strand	-
Start	41	End	2126
Name	OJ991206_03.0419.C17.o2.np	Method	AAT/NAP
Start	41	End	2126
GI	7523517	Score	162
Exons	41..309, 1769..1823, 1967..2126		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52029	Seq. ID	OJ991206_03.0419.C17
Gene No.	110065	Strand	-
Start	41	End	2126
Name	OJ991206_03.0419.C17.o1.np	Method	AAT/NAP
Start	308	End	418
GI	7340860	Score	81
Exons	308..418		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52030	Seq. ID	OJ991206_03.0419.C18
Gene No.	110066	Strand	-
Start	1338	End	3561
Name	OJ991206_03.0419.C18.o1.gs	Method	GENSCAN
Start	1338	End	3561
GI	none	Score	.77

Exons	1338..1439, 2011..2142, 3173..3340, 3529..3561		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1003
GI	4262228	Score	595
Exons	1..709, 946..1003		
GI Descrip.	(AC006200) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	3	End	212
GI	none	Score	91
Exons	3..68, 51..212		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o1.gs	Method	GENSCAN
Start	57	End	657
GI	none	Score	.78
Exons	57..657		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	315	End	644
GI	none	Score	35
Exons	315..368, 348..500, 374..484, 495..644, 509..640		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	374	End	649
GI	none	Score	142
Exons	374..484, 378..524, 504..641, 509..649		
Seq. No.	52031	Seq. ID	OJ991206_03.0419.C19
Gene No.	110067	Strand	+
Start	1	End	1003
Name	OJ991206_03.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	447	End	659
GI	none	Score	326
Exons	447..659, 449..658		
Seq. No.	52032	Seq. ID	OJ991206_03.0419.C20
Gene No.	110068	Strand	+
Start	531	End	1651
Name	OJ991206_03.0419.C20.o1.gs	Method	GENSCAN
Start	531	End	1651

GI	none	Score	.83
Exons	531..554, 1548..1651		

Seq. No.	52032	Seq. ID	OJ991206_03.0419.C20
Gene No.	110069	Strand	-
Start	1	End	197
Name	OJ991206_03.0419.C20.o1.gp	Method	AAT/GAP
Start	1	End	197
GI	none	Score	382
Exons	1..197		

Seq. No.	52033	Seq. ID	OJ991206_03.0419.C22
Gene No.	110070	Strand	+
Start	50	End	223
Name	OJ991206_03.0419.C22.o1.gs	Method	GENSCAN
Start	50	End	223
GI	none	Score	.83
Exons	50..223		

Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	3241
GI	2811226	Score	838
Exons	1..51, 452..666, 1111..1227, 1323..1391, 1486..1524, 2263..2432, 2544..2745, 2785..2951, 3114..3241		
GI Descrip.	(AF042669) fimbrin 2 [Arabidopsis thaliana] gi\|2811232\|gb\|AAB97847.1\| (AF042671) fimbrin 2 [Arabidopsis thaliana]		

Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	440	End	2336
GI	none	Score	311
Exons	440..664, 449..673, 451..672, 1109..1222, 1111..1233, 1299..1394, 1323..1394, 1483..1527, 1487..1540, 2271..2336, 2272..2334		

Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.gp	Method	AAT/GAP
Start	443	End	1231
GI	23858_1.R1084	Score	596
Exons	443..666, 1111..1231		
GI Descrip.	'2811226 1.0e-118 (AF042669) fimbrin 2 [Arabidopsis thaliana] >gi_2811232 (AF042671) fimbrin 2 [Arabidopsis thaliana]'		

Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	445	End	3238
GI	none	Score	126

Exons	445..594, 449..610, 451..609, 617..667, 622..672, 1111..1230, 1118..1228, 1311..1394, 1354..1392, 1483..1521, 2274..2387, 2278..2340, 2387..2431, 2388..2432, 2546..2719, 2553..2696, 3173..3238		
Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	451	End	2450
GI	none	Score	103
Exons	451..573, 451..609, 470..613, 622..672, 1111..1230, 1118..1228, 1311..1394, 1311..1394, 1483..1527, 2274..2387, 2275..2343, 2390..2431, 2391..2450		
Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.gs	Method	GENSCAN
Start	452	End	3152
GI	none	Score	.52
Exons	452..666, 1111..1227, 1323..1391, 2263..2432, 2488..3055, 3057..3152		
Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	2339	End	2917
GI	none	Score	52
Exons	2339..2380, 2340..2387, 2387..2431, 2388..2432, 2544..2687, 2544..2624, 2546..2719, 2680..2706, 2796..2915, 2798..2917		
Seq. No.	52034	Seq. ID	OJ991206_03.0419.C24
Gene No.	110071	Strand	-
Start	1	End	3241
Name	OJ991206_03.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	2879	End	3241
GI	none	Score	80
Exons	2879..2986, 2954..3058, 3170..3241, 3170..3241		
Seq. No.	52035	Seq. ID	OJ991206_03.0419.C25
Gene No.	110072	Strand	+
Start	48	End	413
Name	OJ991206_03.0419.C25.o1.gs	Method	GENSCAN
Start	48	End	413
GI	none	Score	.79
Exons	48..413		
Seq. No.	52036	Seq. ID	OJ991206_03.0419.C26
Gene No.	110073	Strand	-
Start	104	End	158
Name	OJ991206_03.0419.C26.o1.gs	Method	GENSCAN
Start	104	End	158
GI	none	Score	.82
Exons	104..158		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110074	Strand	+
Start	4348	End	4787
Name	OJ991206_03.0419.C29.o1.gp	Method	AAT/GAP
Start	4348	End	4787
GI	none	Score	873
Exons	4348..4787		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110075	Strand	-
Start	1	End	4591
Name	OJ991206_03.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	4591
GI	7485695	Score	356
Exons	1..38, 102..832, 1090..1263, 4561..4591		
GI Descrip.	hypothetical protein F18A5.40 - Arabidopsis thaliana gi\|4455294\|emb\|CAB36829.1\| (AL035528) putative protein [Arabidopsis thaliana] gi\|7268069\|emb\|CAB78407.1\| (AL161537) putative protein [Arabidopsis thaliana]		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110075	Strand	-
Start	1	End	4591
Name	OJ991206_03.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	103	End	1264
GI	none	Score	81
Exons	103..300, 343..522, 359..517, 364..576, 447..572, 538..702, 538..774, 541..846, 541..702, 542..706, 578..793, 1169..1264		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110075	Strand	-
Start	1	End	4591
Name	OJ991206_03.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	334	End	636
GI	none	Score	92
Exons	334..516, 344..535, 541..636, 541..636		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110075	Strand	-
Start	1	End	4591
Name	OJ991206_03.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	338	End	648
GI	none	Score	111
Exons	338..523, 343..522, 535..648, 578..646		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110076	Strand	
Start	4654	End	5041
Name	OJ991206_03.0419.C29.o2.tc	Method	TBLASTX:Cress
Start	4654	End	4945
GI	none	Score	74
Exons	4654..4731, 4786..4938, 4786..4944, 4796..4945		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110076	Strand	
Start	4654	End	5041
Name	OJ991206_03.0419.C29.o2.tm	Method	TBLASTX:Maize

Start	4663	End	4923
GI	none	Score	70
Exons	4663..4923, 4664..4726, 4677..4919, 4777..4923		

Seq. No.	52037	Seq. ID	OJ991206_03.0419.C29
Gene No.	110076	Strand	
Start	4654	End	5041
Name	OJ991206_03.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	4781	End	5041
GI	none	Score	187
Exons	4781..4873, 4786..5034, 4793..5041		

Seq. No.	52038	Seq. ID	OJ991206_03.0419.C30
Gene No.	110077	Strand	-
Start	225	End	1461
Name	OJ991206_03.0419.C30.o1.gs	Method	GENSCAN
Start	225	End	1299
GI	none	Score	.94
Exons	225..327, 636..776, 895..1000, 1098..1299		

Seq. No.	52038	Seq. ID	OJ991206_03.0419.C30
Gene No.	110077	Strand	-
Start	225	End	1461
Name	OJ991206_03.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	425	End	738
GI	none	Score	131
Exons	425..559, 427..561, 633..737, 636..719, 637..738		

Seq. No.	52038	Seq. ID	OJ991206_03.0419.C30
Gene No.	110077	Strand	-
Start	225	End	1461
Name	OJ991206_03.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	472	End	1461
GI	none	Score	120
Exons	472..561, 474..563, 512..562, 633..776, 635..781, 636..782, 888..995, 893..1009, 893..991, 937..999, 1089..1310, 1100..1300, 1377..1460, 1378..1461		

Seq. No.	52038	Seq. ID	OJ991206_03.0419.C30
Gene No.	110077	Strand	-
Start	225	End	1461
Name	OJ991206_03.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	636	End	1297
GI	none	Score	87
Exons	636..770, 636..776, 637..777, 893..1000, 940..996, 1100..1135, 1175..1297		

Seq. No.	52039	Seq. ID	OJ991206_03.0419.C31
Gene No.	110078	Strand	-
Start	134	End	6102
Name	OJ991206_03.0419.C31.o1.gs	Method	GENSCAN
Start	134	End	6102
GI	none	Score	.91
Exons	134..357, 439..591, 782..991, 1071..1145, 1268..1396, 1642..2097, 2255..2425, 3235..3342, 3901..4064, 5146..5304, 5877..6102		

Seq. No.	52039	Seq. ID	OJ991206_03.0419.C31
Gene No.	110078	Strand	-
Start	134	End	6102
Name	OJ991206_03.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	199	End	594
GI	none	Score	208
Exons	199..426, 203..364, 434..592, 558..593	434..505, 439..594, 439..591,	

Seq. No.	52039	Seq. ID	OJ991206_03.0419.C31
Gene No.	110078	Strand	-
Start	134	End	6102
Name	OJ991206_03.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	1834	End	2431
GI	none	Score	81
Exons	1834..2004, 1869..1997, 1891..2004, 1893..2012, 2037..2189, 2037..2174, 2038..2181, 2042..2191, 2232..2426, 2252..2431, 2256..2351, 2257..2403, 2258..2428		

Seq. No.	52039	Seq. ID	OJ991206_03.0419.C31
Gene No.	110078	Strand	-
Start	134	End	6102
Name	OJ991206_03.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	2093	End	2431
GI	none	Score	105
Exons	2093..2194, 2095..2175, 2102..2182, 2246..2431, 2253..2351		

Seq. No.	52039	Seq. ID	OJ991206_03.0419.C31
Gene No.	110078	Strand	-
Start	134	End	6102
Name	OJ991206_03.0419.C31.o3.tm	Method	TBLASTX:Maize
Start	5152	End	6102
GI	none	Score	124
Exons	5152..5304, 5152..5304, 5154..5306, 5884..6102, 5888..6097		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110079	Strand	+
Start	221	End	7177
Name	OJ991206_03.0419.C32.o1.gp	Method	AAT/GAP
Start	221	End	4599
GI	18859_2.R1084	Score	864
Exons	221..265, 359..496, 4107..4220, 4326..4463, 4544..4599		
GI Descrip.	'2344898 7.0e-52 (AC002388) 60S ribosomal protein L30 isolog [Arabidopsis thaliana]'		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110079	Strand	+
Start	221	End	7177
Name	OJ991206_03.0419.C32.o1.gs	Method	GENSCAN
Start	416	End	5453
GI	none	Score	.7
Exons	416..496, 1802..1949, 2016..2208, 2811..3003, 4107..4220, 4326..4462, 4544..4702, 5267..5453		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110079	Strand	+
Start	221	End	7177

Name	OJ991206_03.0419.C32.o1.np	Method	AAT/NAP
Start	416	End	4688
GI	7440779	Score	463
Exons	416..496, 4107..4220, 4326..4472, 4554..4688		
GI Descrip.	ribosomal protein L24 homolog T13E15.13 - Arabidopsis thaliana gi\|2344898\|gb\|AAC31838.1\| (AC002388) 60S ribosomal protein L30 [Arabidopsis thaliana]		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110079	Strand	+
Start	221	End	7177
Name	OJ991206_03.0419.C32.o2.np	Method	AAT/NAP
Start	5219	End	7177
GI	4680183	Score	64
Exons	5219..5484, 5723..5858, 7143..7177		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	403	End	4466
GI	none	Score	158
Exons	403..495, 416..499, 4104..4220, 4106..4222, 4106..4216, 4323..4466, 4325..4465		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	406	End	4466
GI	none	Score	158
Exons	406..501, 416..499, 4104..4220, 4106..4231, 4106..4216, 4322..4450, 4323..4466		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	409	End	4741
GI	none	Score	158
Exons	409..513, 416..499, 4104..4220, 4106..4222, 4106..4216, 4323..4463, 4325..4453, 4539..4622, 4540..4620, 4643..4738, 4643..4741		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o2.gs	Method	GENSCAN
Start	5813	End	6794
GI	none	Score	.77
Exons	5813..5930, 6499..6794		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o3.np	Method	AAT/NAP

Start	6513	End	6837
GI	6714288	Score	385
Exons	6513..6837		
GI Descrip.	(AC013354) F15H18.12 [Arabidopsis thaliana]		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	6537	End	6839
GI	none	Score	96
Exons	6537..6839, 6577..6783, 6585..6839		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o2.gp	Method	AAT/GAP
Start	6560	End	6839
GI	LIB3434-040-P1-K1-A6	Score	540
Exons	6560..6839		
GI Descrip.	'4539314/emb\|CAB38815.1\| 1.0e-33 (AL035679) kinesin like protein [Arabidopsis thaliana]'		

Seq. No.	52040	Seq. ID	OJ991206_03.0419.C32
Gene No.	110080	Strand	-
Start	5813	End	6855
Name	OJ991206_03.0419.C32.o2.ts	Method	TBLASTX:Soybean
Start	6576	End	6855
GI	none	Score	78
Exons	6576..6839, 6577..6855		

Seq. No.	52041	Seq. ID	OJ991206_03.0419.C40
Gene No.	110081	Strand	-
Start	1	End	1005
Name	OJ991206_03.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1005
GI	6714288	Score	605
Exons	1..1005		
GI Descrip.	(AC013354) F15H18.12 [Arabidopsis thaliana]		

Seq. No.	52041	Seq. ID	OJ991206_03.0419.C40
Gene No.	110081	Strand	-
Start	1	End	1005
Name	OJ991206_03.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	62	End	206
GI	none	Score	195
Exons	62..205, 66..206		

Seq. No.	52042	Seq. ID	OJ991216_03.0419.C3
Gene No.	110082	Strand	+
Start	1339	End	7017
Name	OJ991216_03.0419.C3.o1.np	Method	AAT/NAP
Start	1339	End	3415
GI	7363272	Score	506
Exons	1339..1426, 2186..2568, 2598..2782, 3318..3415		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	52042	Seq. ID	OJ991216_03.0419.C3
Gene No.	110082	Strand	+
Start	1339	End	7017
Name	OJ991216_03.0419.C3.o2.np	Method	AAT/NAP
Start	2845	End	7017
GI	775215	Score	132
Exons	2845..3379, 6880..7017		
GI Descrip.	(U23857) EBNA1 [Herpesvirus papio]		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110083	Strand	+
Start	1	End	2263
Name	OJ991216_03.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	2257
GI	4680199	Score	753
Exons	1..124, 174..731, 1053..1735, 1821..1938, 2107..2257		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110083	Strand	+
Start	1	End	2263
Name	OJ991216_03.0419.C4.o1.gs	Method	GENSCAN
Start	29	End	2263
GI	none	Score	.98
Exons	29..133, 220..690, 970..1735, 1821..2263		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	469	End	735
GI	none	Score	304
Exons	469..735, 469..711, 534..734		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	1248	End	1488
GI	none	Score	151
Exons	1248..1397, 1249..1422, 1261..1404, 1292..1423, 1420..1488		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	1372	End	1737
GI	none	Score	268
Exons	1372..1737, 1431..1529, 1593..1682		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1483	End	1969
GI	none	Score	170
Exons	1483..1743, 1820..1912, 1925..1969		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	1491	End	2023
GI	none	Score	212
Exons	1491..1694, 1492..1704, 1811..2023, 1831..2019		

Seq. No.	52043	Seq. ID	OJ991216_03.0419.C4
Gene No.	110084	Strand	-
Start	2836	End	3150
Name	OJ991216_03.0419.C4.o2.gs	Method	GENSCAN
Start	2836	End	3150
GI	none	Score	.91
Exons	2836..3150		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110085	Strand	+
Start	402	End	3548
Name	OJ991216_03.0419.C5.o1.gs	Method	GENSCAN
Start	402	End	3548
GI	none	Score	.78
Exons	402..487, 697..843, 1023..1082, 1668..1696, 2374..2778, 2945..3029, 3402..3548		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110086	Strand	+
Start	6509	End	9832
Name	OJ991216_03.0419.C5.o3.gs	Method	GENSCAN
Start	6509	End	9832
GI	none	Score	.92
Exons	6509..7392, 7938..8022, 8133..8195, 8461..8537, 8663..8738, 8825..8884, 9181..9285, 9653..9832		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110087	Strand	-
Start	4157	End	5499
Name	OJ991216_03.0419.C5.o2.gs	Method	GENSCAN
Start	4157	End	5499
GI	none	Score	.63
Exons	4157..4595, 5185..5258, 5299..5499		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110088	Strand	-
Start	10588	End	12195
Name	OJ991216_03.0419.C5.o1.np	Method	AAT/NAP
Start	10588	End	12195
GI	6850304	Score	1091
Exons	10588..10650, 10765..12195		
GI Descrip.	(AC009999) Contains similarity to a hypothetical protein from Arabidopsis thaliana gb\|AC007109.6, and contains two DUF17 PF\|01535 domains.		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110089	Strand	-
Start	12751	End	16450

Name	OJ991216_03.0419.C5.o1.gp	Method	AAT/GAP
Start	12751	End	14474
GI	3678_1.R1084	Score	1006
Exons	12751..13069, 13620..13694, 13910..13983, 14383..14474		
GI Descrip.	'2511594/emb\|CAA74028.1\| 3.0e-35 (Y13694) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] >gi_2827525_emb_CAA16533.1_ (AL021633) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] >gi_3421099 (AF043529) 20S proteasome subunit PBA1 [Arabidopsis thaliana]'		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110089	Strand	-
Start	12751	End	16450
Name	OJ991216_03.0419.C5.o2.np	Method	AAT/NAP
Start	12941	End	16103
GI	7435895	Score	763
Exons	12941..13069, 13620..13694, 13910..13983, 14383..14494, 14679..14751, 14877..14932, 15249..15325, 16001..16103		
GI Descrip.	multicatalytic endopeptidase complex (EC 3.4.99.46) beta chain - Arabidopsis thaliana gi\|2511594\|emb\|CAA74028.1\| (Y13694) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] gi\|2827525\|emb\|CAA16533.1\| (AL021633) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] gi\|3421099\|gb\|AAC32065.1		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110089	Strand	-
Start	12751	End	16450
Name	OJ991216_03.0419.C5.o2.gp	Method	AAT/GAP
Start	14667	End	16450
GI	7094_1.R1084	Score	785
Exons	14667..14751, 14877..14932, 15249..15325, 16001..16240, 16396..16450		
GI Descrip.	'3024440/sp\|P93395\|PRCD_TOBAC 2.0e-37 PROTEASOME DELTA CHAIN PRECURSOR (MULTICATALYTIC ENDOPEPTIDASE COMPLEX DELTA CHAIN) >gi_1743356_emb_CAA70699_ (Y09505) proteasome delta subunit [Nicotiana tabacum]'		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110090	Strand	-
Start	18256	End	21473
Name	OJ991216_03.0419.C5.o5.gs	Method	GENSCAN
Start	18256	End	21473
GI	none	Score	.82
Exons	18256..18423, 18574..19242, 19447..19503, 20016..20373, 20835..20932, 21091..21306, 21324..21473		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110091	Strand	-
Start	21807	End	23830
Name	OJ991216_03.0419.C5.o3.gp	Method	AAT/GAP
Start	21807	End	23830
GI	uC-osrocyp031e01b1	Score	520
Exons	21807..22024, 23706..23830		
GI Descrip.	'4176420/dbj\|BAA37167\| 2.0e-11 (AB008097) cytochrome P450		

[Arabidopsis thaliana]'

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	3164	End	8741
GI	none	Score	75
Exons	3164..3247, 3405..3500, 3502..3537, 3731..3820, 3741..3818, 3742..3825, 7256..7393, 7294..7392, 7939..8019, 7953..8027, 8130..8195, 8131..8214, 8377..8544, 8377..8529, 8379..8546, 8654..8737, 8655..8741		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	3203	End	8714
GI	none	Score	65
Exons	3203..3256, 3414..3500, 3481..3537, 3741..3794, 3742..3795, 8142..8192, 8362..8544, 8379..8525, 8654..8713, 8655..8714		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o2.tc	Method	TBLASTX:Cress
Start	3414	End	9829
GI	none	Score	76
Exons	3414..3497, 3481..3537, 3741..3818, 3742..3816, 3961..4005, 5389..5466, 5391..5465, 5550..5714, 5567..5713, 7318..7380, 7322..7390, 7939..8019, 8133..8195, 8377..8544, 8379..8513, 8652..8735, 8655..8732, 8660..8737, 8807..8887, 8810..8887, 8812..8889, 9199..9282, 9208..9300, 9658..9807, 9659..9829, 9716..9808		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	3961	End	9817
GI	none	Score	78
Exons	3961..4005, 5382..5465, 5388..5462, 5389..5481, 5553..5708, 8822..8887, 8824..8889, 9193..9285, 9213..9284, 9623..9817, 9649..9813		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o4.ts	Method	TBLASTX:Soybean
Start	5389	End	9814
GI	none	Score	104
Exons	5389..5466, 5550..5708, 8715..8735, 8810..8887, 8864..8950, 9187..9282, 9209..9283, 9652..9813, 9659..9814		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783

Name	OJ991216_03.0419.C5.o3.tc	Method	TBLASTX:Cress
Start	10735	End	11173
GI	none	Score	106
Exons	10735..11169, 10766..10933, 11030..11173		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	10750	End	11817
GI	none	Score	191
Exons	10750..11595, 11033..11638, 11260..11601, 11294..11614, 11350..11691, 11491..11733, 11695..11817		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	10765	End	11301
GI	none	Score	78
Exons	10765..11301, 10766..10948		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	11156	End	11994
GI	none	Score	122
Exons	11156..11365, 11158..11631, 11399..11596, 11548..11739, 11953..11994		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	11182	End	11886
GI	none	Score	68
Exons	11182..11289, 11206..11433, 11296..11886, 11297..11458, 11305..11586, 11516..11857		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	11305	End	11808
GI	none	Score	108
Exons	11305..11442, 11362..11739, 11522..11740, 11701..11808		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	12924	End	13976
GI	none	Score	140
Exons	12924..13058, 12925..13068, 12926..13069, 12926..13069, 13611..13697, 13612..13695, 13617..13697, 13907..13972, 13910..13975, 13911..13976		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o4.tc	Method	TBLASTX:Cress
Start	12938	End	13969
GI	none	Score	87
Exons	12938..13069, 12939..13058, 12947..13060, 13611..13697, 13615..13692, 13910..13969		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	13929	End	15311
GI	none	Score	68
Exons	13929..13985, 13931..13993, 14381..14497, 14382..14492, 14679..14777, 14679..14750, 14876..14932, 14877..14933, 15243..15311, 15249..15311		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o6.tm	Method	TBLASTX:Maize
Start	14379	End	16122
GI	none	Score	214
Exons	14379..14495, 14381..14497, 14382..14495, 14616..14750, 14679..14750, 14680..14754, 14680..14751, 14875..14931, 14876..14932, 14877..14933, 14878..14940, 15243..15326, 15248..15325, 15250..15327, 15983..16018, 15996..16121, 15997..16122		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	18372	End	19515
GI	none	Score	106
Exons	18372..18491, 18372..18482, 18376..18489, 18389..18490, 18569..18937, 18574..19032, 18620..18934, 18624..19028, 19136..19240, 19137..19241, 19138..19242, 19139..19243, 19316..19357, 19318..19368, 19435..19515		

Seq. No.	52044	Seq. ID	OJ991216_03.0419.C5
Gene No.	110092	Strand	-
Start	26158	End	27783
Name	OJ991216_03.0419.C5.o3.np	Method	AAT/NAP
Start	26158	End	27783
GI	6539588	Score	190
Exons	26158..26277, 27481..27783		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110093	Strand	+
Start	5374	End	5782
Name	OJ991216_03.0419.C6.o2.gs	Method	GENSCAN
Start	5374	End	5782

GI	none	Score	.8
Exons	5374..5420, 5620..5782		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110094	Strand	+
Start	7496	End	10607
Name	OJ991216_03.0419.C6.o3.gs	Method	GENSCAN
Start	7496	End	10607
GI	none	Score	.81
Exons	7496..8110, 8275..8424, 8670..9107, 9210..9323, 9428..9983, 10588..10607		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110094	Strand	+
Start	7496	End	10607
Name	OJ991216_03.0419.C6.o2.np	Method	AAT/NAP
Start	7616	End	9736
GI	6715734	Score	419
Exons	7616..7897, 8275..8424, 8729..8956, 9060..9107, 9210..9323, 9428..9736		
GI Descrip.	(AC016447) putative DNA binding protein [Arabidopsis thaliana]		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110095	Strand	+
Start	11975	End	17480
Name	OJ991216_03.0419.C6.o4.gs	Method	GENSCAN
Start	11975	End	17458
GI	none	Score	.78
Exons	11975..12004, 13528..13706, 14628..14694, 16409..17458		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110095	Strand	+
Start	11975	End	17480
Name	OJ991216_03.0419.C6.o2.gp	Method	AAT/GAP
Start	13925	End	16598
GI	571821	Score	552
Exons	13925..14038, 16409..16598		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110095	Strand	+
Start	11975	End	17480
Name	OJ991216_03.0419.C6.o3.np	Method	AAT/NAP
Start	16421	End	17480
GI	6553882	Score	602
Exons	16421..16715, 16761..17480		
GI Descrip.	(AC012563) unknown protein [Arabidopsis thaliana]		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110096	Strand	-
Start	1287	End	4461
Name	OJ991216_03.0419.C6.o1.gs	Method	GENSCAN
Start	1287	End	4461
GI	none	Score	.64
Exons	1287..1452, 1523..1860, 2126..2695, 2777..2952, 3727..3957, 4280..4399, 4404..4461		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6

Gene No.	110096	Strand	-
Start	1287	End	4461
Name	OJ991216_03.0419.C6.o1.np	Method	AAT/NAP
Start	2407	End	3983
GI	6539588	Score	158
Exons	2407..2445, 3714..3983		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	9176	End	9499
GI	none	Score	208
Exons	9176..9325, 9210..9326, 9216..9326, 9409..9498, 9425..9499		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	9209	End	9499
GI	none	Score	208
Exons	9209..9325, 9210..9326, 9409..9498, 9425..9499		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	9209	End	9499
GI	none	Score	207
Exons	9209..9325, 9210..9326, 9391..9498, 9425..9499		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	9210	End	9499
GI	none	Score	181
Exons	9210..9353, 9210..9326, 9212..9373, 9454..9498, 9455..9499		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	16400	End	17044
GI	none	Score	125
Exons	16400..16708, 16410..16706, 16460..16714, 16540..16713, 16786..17016, 16787..17044		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	16466	End	17092
GI	none	Score	275
Exons	16466..16714, 16545..16691, 16547..16699, 16549..16704, 16790..16912, 16795..16911, 16915..17013, 16922..17092		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	16582	End	17115
GI	none	Score	320
Exons	16582..16782, 16583..16783, 16786..17088, 16787..17089, 16787..17092, 16789..17115		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	17162	End	17405
GI	none	Score	267
Exons	17162..17353, 17162..17404, 17172..17405		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	17177	End	17567
GI	none	Score	134
Exons	17177..17302, 17208..17303, 17294..17479, 17294..17482, 17295..17483, 17493..17567, 17493..17558		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o5.gs	Method	GENSCAN
Start	18042	End	22392
GI	none	Score	.81
Exons	18042..18253, 18381..18860, 19716..19803, 20310..20549, 21378..21771, 21917..22163, 22251..22392		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o4.np	Method	AAT/NAP
Start	18329	End	22439
GI	7486567	Score	731
Exons	18329..18720, 19714..19803, 20310..20549, 21378..21508, 21569..21771, 21917..22162, 22247..22439		
GI Descrip.	hypothetical protein F7H19.150 - Arabidopsis thaliana gi\|3292822\|emb\|CAA19812.1\| (AL031018) putative protein [Arabidopsis thaliana] gi\|7269144\|emb\|CAB79252.1\| (AL161558) putative protein [Arabidopsis thaliana]		

Seq. No.	52045	Seq. ID	OJ991216_03.0419.C6
Gene No.	110097	Strand	-
Start	18042	End	22439
Name	OJ991216_03.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	18596	End	20409
GI	none	Score	247
Exons	18596..18862, 18596..18823, 18598..18864, 18622..18876, 18681..18881, 19704..19808, 19714..19806, 19719..19817,		

20310..20402, 20311..20409

Seq. No.	52046	Seq. ID	OJ991216_03.0419.C7
Gene No.	110098	Strand	+
Start	535	End	676
Name	OJ991216_03.0419.C7.o1.gs	Method	GENSCAN
Start	535	End	676
GI	none	Score	.48
Exons	535..676		

Seq. No.	52046	Seq. ID	OJ991216_03.0419.C7
Gene No.	110099	Strand	-
Start	1746	End	4232
Name	OJ991216_03.0419.C7.o2.gs	Method	GENSCAN
Start	1746	End	4232
GI	none	Score	.93
Exons	1746..2380, 2773..2896, 3191..3439, 3756..3875, 3890..3964, 4227..4232		

Seq. No.	52047	Seq. ID	OJ991216_03.0419.C8
Gene No.	110100	Strand	-
Start	222	End	2443
Name	OJ991216_03.0419.C8.o1.gs	Method	GENSCAN
Start	222	End	2443
GI	none	Score	.77
Exons	222..320, 395..694, 779..909, 1678..1784, 1980..2443		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110101	Strand	+
Start	1934	End	2431
Name	OJ991216_03.0419.C9.o1.gp	Method	AAT/GAP
Start	1934	End	2431
GI	2347_1.R1084	Score	965
Exons	1934..2431		
GI Descrip.	'128191/sp\|P27968\|NIA7_HORVU 2.0e-35 NITRATE REDUCTASE [NAD(P)H] >gi_66210_pir__RDBHNP nitrate reductase (NAD(P)H) (EC 1.6.6.2) - barley >gi_19065_emb_CAA42739_ (X60173) nitrate reductase (NAD(P)H) [Hordeum vulgare]'		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110102	Strand	-
Start	459	End	1564
Name	OJ991216_03.0419.C9.o1.gs	Method	GENSCAN
Start	459	End	1564
GI	none	Score	.86
Exons	459..488, 576..753, 843..1564		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	2192	End	5045
GI	none	Score	51
Exons	2192..2308, 2232..2309, 2309..2389, 2396..2521, 2397..2522, 2453..2992, 2514..2987, 3092..3538, 3093..3533, 3611..3853, 3619..3852, 4019..4159, 4020..4190, 4262..4540, 4263..4541, 4529..5035, 4530..4583, 4647..5045		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	2195	End	5035
GI	none	Score	105
Exons	2195..2374, 2223..2375, 2381..2419, 2435..2521, 2436..2522, 2516..2986, 2534..2830, 2547..2987, 3065..3538, 3086..3274, 3096..3539, 3611..3853, 3617..3658, 3619..3852, 3758..3859, 4019..4177, 4019..4162, 4072..4197, 4265..5035, 4290..4583, 4647..5021		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o2.gs	Method	GENSCAN
Start	2195	End	5221
GI	none	Score	.99
Exons	2195..3532, 3619..3851, 4021..4161, 4264..5221		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o1.np	Method	AAT/NAP
Start	2198	End	5221
GI	128191	Score	4056
Exons	2198..3532, 3619..3851, 4021..4161, 4264..5221		
GI Descrip.	NITRATE REDUCTASE [NAD(P)H] gi\|66210\|pir\|\|RDBHNP nitrate reductase (NAD(P)H) (EC 1.6.6.2) - barley gi\|19065\|emb\|CAA42739\| (X60173) nitrate reductase (NAD(P)H) [Hordeum vulgare]		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	2319	End	2584
GI	none	Score	213
Exons	2319..2579, 2321..2584		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	2585	End	3367
GI	none	Score	276
Exons	2585..2977, 2585..2992, 3068..3322, 3083..3295, 3090..3326, 3332..3367, 3333..3362, 3334..3363		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o2.gp	Method	AAT/GAP
Start	2741	End	3194
GI	9204_1.R1084	Score	837
Exons	2741..3194		
GI Descrip.	'128191/sp\|P27968\|NIA7_HORVU 4.0e-57 NITRATE REDUCTASE [NAD(P)H]		

>gi_66210_pir__RDBHNP nitrate reductase (NAD(P)H) (EC 1.6.6.2) - barley >gi_19065_emb_CAA42739_ (X60173) nitrate reductase (NAD(P)H) [Hordeum vulgare]'

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	3344	End	3786
GI	none	Score	218
Exons	3344..3538, 3345..3533, 3611..3784, 3617..3658, 3619..3786, 3619..3786		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	3767	End	4531
GI	none	Score	61
Exons	3767..3853, 3796..3864, 4271..4531, 4353..4496		

Seq. No.	52048	Seq. ID	OJ991216_03.0419.C9
Gene No.	110103	Strand	-
Start	2195	End	5221
Name	OJ991216_03.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	4556	End	4886
GI	none	Score	46
Exons	4556..4603, 4561..4602, 4562..4666, 4665..4799, 4673..4885, 4674..4886		

Seq. No.	52049	Seq. ID	OJ991216_03.0419.C10
Gene No.	110104	Strand	+
Start	2149	End	2352
Name	OJ991216_03.0419.C10.o1.gs	Method	GENSCAN
Start	2149	End	2352
GI	none	Score	.97
Exons	2149..2352		

Seq. No.	52049	Seq. ID	OJ991216_03.0419.C10
Gene No.	110105	Strand	+
Start	5568	End	5760
Name	OJ991216_03.0419.C10.o2.gp	Method	AAT/GAP
Start	5568	End	5760
GI	5667165	Score	349
Exons	5568..5760		
GI Descrip.	5670155/gb\|AF161269.1\|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	52049	Seq. ID	OJ991216_03.0419.C10
Gene No.	110106	Strand	+
Start	5841	End	7431
Name	OJ991216_03.0419.C10.o1.np	Method	AAT/NAP
Start	5841	End	7431
GI	6907086	Score	1260
Exons	5841..6563, 6624..6789, 7018..7133, 7247..7431		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52049	Seq. ID	OJ991216_03.0419.C10
Gene No.	110107	Strand	-
Start	3894	End	4406
Name	OJ991216_03.0419.C10.o1.gp	Method	AAT/GAP
Start	3894	End	4406
GI	38782_1.R1084	Score	808
Exons	3894..4406		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52050	Seq. ID	OJ991216_03.0419.C11
Gene No.	110108	Strand	+
Start	2993	End	3290
Name	OJ991216_03.0419.C11.o1.gp	Method	AAT/GAP
Start	2993	End	3290
GI	uC-osroM202003f02a2	Score	592
Exons	2993..3290		
GI Descrip.	'1169012/sp\|P43254\|COP1_ARATH 4.0e-11 COP1 REGULATORY PROTEIN (FUSCA PROTEIN FUS1) >gi_402685 (L24437) regulatory protein [Arabidopsis thaliana]'		

Seq. No.	52050	Seq. ID	OJ991216_03.0419.C11
Gene No.	110109	Strand	-
Start	321	End	2315
Name	OJ991216_03.0419.C11.o1.gs	Method	GENSCAN
Start	321	End	2315
GI	none	Score	.46
Exons	321..424, 1597..1772, 1806..1943, 2181..2315		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.gp	Method	AAT/GAP
Start	264	End	1040
GI	2310219	Score	711
Exons	264..477, 553..657, 926..1040		
GI Descrip.	2702280 7.0e-63 (AC003033) photomorphogenesis repressor COP1 [Arabidopsis thaliana]		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	291	End	447
GI	none	Score	182
Exons	291..446, 295..447, 296..445		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	294	End	1028
GI	none	Score	193
Exons	294..470, 294..431, 295..477, 296..478, 538..663, 539..658, 553..663, 923..1027, 924..1028, 924..1028		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12

Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.np	Method	AAT/NAP
Start	294	End	1889
GI	4090943	Score	902
Exons	294..477, 553..657, 926..1024, 1117..1272, 1365..1443, 1806..1889		
GI Descrip.	(AF029984) COP1 homolog [Lycopersicon esculentum]		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.gs	Method	GENSCAN
Start	298	End	1443
GI	none	Score	.74
Exons	298..494, 907..1024, 1117..1272, 1365..1443		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	448	End	1876
GI	none	Score	101
Exons	448..483, 538..663, 539..658, 552..671, 553..672, 923..1024, 924..1031, 925..1032, 925..1026, 942..1031, 1117..1272, 1118..1273, 1362..1448, 1363..1446, 1369..1449, 1806..1874, 1823..1876		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	924	End	1448
GI	none	Score	72
Exons	924..1007, 929..1024, 1117..1287, 1124..1267, 1362..1448, 1372..1413		

Seq. No.	52051	Seq. ID	OJ991216_03.0419.C12
Gene No.	110110	Strand	-
Start	264	End	1889
Name	OJ991216_03.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	1111	End	1448
GI	none	Score	81
Exons	1111..1272, 1133..1243, 1362..1448		

Seq. No.	52052	Seq. ID	OJ991216_03.0419.C13
Gene No.	110111	Strand	-
Start	1	End	2277
Name	OJ991216_03.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	2139
GI	1169012	Score	705
Exons	1..385, 501..656, 1130..1207, 1822..2139		
GI Descrip.	COP1 REGULATORY PROTEIN (FUSCA PROTEIN FUS1) gi\|402685 (L24437) regulatory protein [Arabidopsis thaliana]		

Seq. No.	52052	Seq. ID	OJ991216_03.0419.C13
Gene No.	110111	Strand	-

Start	1	End	2277
Name	OJ991216_03.0419.C13.o1.gs	Method	GENSCAN
Start	26	End	2182
GI	none	Score	.8
Exons	26..385, 501..656, 1130..1207, 1822..2182		

Seq. No.	52052	Seq. ID	OJ991216_03.0419.C13
Gene No.	110111	Strand	-
Start	1	End	2277
Name	OJ991216_03.0419.C13.o2.tc	Method	TBLASTX:Cress
Start	245	End	525
GI	none	Score	141
Exons	245..388, 246..380, 248..388, 499..525		

Seq. No.	52052	Seq. ID	OJ991216_03.0419.C13
Gene No.	110111	Strand	-
Start	1	End	2277
Name	OJ991216_03.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	1145	End	2016
GI	none	Score	179
Exons	1145..1234, 1796..1999, 1834..2016		

Seq. No.	52052	Seq. ID	OJ991216_03.0419.C13
Gene No.	110111	Strand	-
Start	1	End	2277
Name	OJ991216_03.0419.C13.o1.gp	Method	AAT/GAP
Start	1977	End	2277
GI	45760_1.R1084	Score	487
Exons	1977..2277		
GI Descrip.	'2702280 7.0e-63 (AC003033) photomorphogenesis repressor COP1 [Arabidopsis thaliana]'		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110112	Strand	+
Start	590	End	862
Name	OJ991216_03.0419.C14.o1.gs	Method	GENSCAN
Start	590	End	862
GI	none	Score	.78
Exons	590..862		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110113	Strand	-
Start	2193	End	3686
Name	OJ991216_03.0419.C14.o1.gp	Method	AAT/GAP
Start	2177	End	2493
GI	LIB3434-037-P1-K1-B12	Score	606
Exons	2177..2493		
GI Descrip.	'1174470/sp\|P46978\|STT3_MOUSE 2.0e-33 OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) >gi_508543 (L34260) integral membrane protein 1 [Mus musculus] >gi_1588285_prf__2208301A integral membrane protein [Mus musculus]'		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110113	Strand	-
Start	2193	End	3686
Name	OJ991216_03.0419.C14.o2.gs	Method	GENSCAN

Start	2193	End	3686
GI	none	Score	.61
Exons	2193..3151, 3470..3686		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	2175	End	2939
GI	none	Score	162
Exons	2175..2426, 2217..2432, 2245..2433, 2433..2546, 2476..2550, 2538..2741, 2539..2751, 2722..2766, 2895..2939		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	4676	End	5017
GI	none	Score	188
Exons	4676..4867, 4688..4867, 4690..4869, 4693..4869, 4962..5015, 4964..5017, 4970..5014		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	4711	End	5160
GI	none	Score	147
Exons	4711..4869, 4769..4867, 4970..5014, 5044..5160, 5095..5148		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	4715	End	5185
GI	none	Score	166
Exons	4715..4867, 4715..4867, 4717..4890, 4717..4869, 4962..5015, 4970..5014, 5095..5148, 5102..5185		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o2.np	Method	AAT/NAP
Start	4720	End	5214
GI	7489777	Score	324
Exons	4720..4866, 4970..5013, 5100..5214		
GI Descrip.	hypoxically induced protein 2 - maize (fragment) gi\|3264600\|gb\|AAC24571.1\| (AF057522) hypoxically induced transcript 2 [Zea mays]		

Seq. No.	52053	Seq. ID	OJ991216_03.0419.C14
Gene No.	110114	Strand	-
Start	4757	End	6355
Name	OJ991216_03.0419.C14.o3.gs	Method	GENSCAN
Start	4757	End	6355
GI	none	Score	.79
Exons	4757..4866, 4970..5081, 6326..6355		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110115	Strand	+
Start	125	End	306
Name	OJ991216_03.0419.C16.o1.gs	Method	GENSCAN
Start	125	End	306
GI	none	Score	.99
Exons	125..169, 202..306		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o2.gs	Method	GENSCAN
Start	1946	End	2509
GI	none	Score	.61
Exons	1946..2509		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1950	End	2518
GI	none	Score	130
Exons	1950..2084, 1967..2113, 1967..2518, 1977..2513, 2429..2518		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o1.np	Method	AAT/NAP
Start	1955	End	2518
GI	5733874	Score	694
Exons	1955..2518		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	1959	End	2380
GI	none	Score	329
Exons	1959..2375, 1967..2380		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1967	End	2518
GI	none	Score	253
Exons	1967..2251, 1977..2252, 2262..2405, 2264..2407, 2408..2518, 2409..2516		

Seq. No.	52054	Seq. ID	OJ991216_03.0419.C16
Gene No.	110116	Strand	-
Start	1946	End	2518
Name	OJ991216_03.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	2006	End	2515
GI	none	Score	166

Exons	2006..2305, 2058..2306, 2298..2426, 2300..2425, 2429..2515, 2433..2513		
Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	2474
GI	5733874	Score	1045
Exons	1..39, 111..300, 547..681, 788..885, 1006..1169, 2001..2474		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1	End	1113
GI	none	Score	169
Exons	1..54, 108..302, 109..303, 529..678, 531..683, 787..903, 791..883, 979..1113, 980..1096		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	1	End	2278
GI	none	Score	38
Exons	1..42, 5..40, 108..197, 118..195, 1033..1095, 1034..1183, 1114..1173, 1999..2073, 2000..2071, 2086..2274, 2087..2278		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o1.gs	Method	GENSCAN
Start	111	End	3460
GI	none	Score	.59
Exons	111..300, 547..681, 788..885, 1006..1169, 2001..2503, 3312..3460		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	202	End	1032
GI	none	Score	101
Exons	202..303, 204..302, 480..677, 531..683, 532..678, 787..894, 791..895, 809..895, 1000..1032		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	787	End	2167
GI	none	Score	60
Exons	787..894, 787..894, 791..895, 1000..1092, 1007..1090, 1111..1173, 1112..1207, 1999..2073, 2000..2071, 2083..2166, 2087..2167		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	1117	End	2281
GI	none	Score	56
Exons	1117..1173, 1130..1174, 1999..2073, 2000..2071, 2086..2280, 2087..2281		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	3341	End	3484
GI	none	Score	110
Exons	3341..3484, 3351..3467		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	3344	End	3485
GI	none	Score	161
Exons	3344..3484, 3348..3485		

Seq. No.	52055	Seq. ID	OJ991216_03.0419.C17
Gene No.	110117	Strand	-
Start	1	End	3486
Name	OJ991216_03.0419.C17.o2.np	Method	AAT/NAP
Start	3350	End	3486
GI	7450208	Score	124
Exons	3350..3486		
GI Descrip.	probable amp-binding protein - rape gi\|1903034\|emb\|CAA64328.1\| (X94625) amp-binding protein [Brassica napus]		

Seq. No.	52056	Seq. ID	OJ991216_03.0419.C18
Gene No.	110118	Strand	-
Start	1	End	368
Name	OJ991216_03.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	332
GI	7450207	Score	176
Exons	1..48, 136..332		
GI Descrip.	probable AMP-binding protein T14N5.10 - Arabidopsis thaliana gi\|3540196\|gb\|AAC34346.1\| (AC004260) Putative amp-binding protein [Arabidopsis thaliana]		

Seq. No.	52056	Seq. ID	OJ991216_03.0419.C18
Gene No.	110118	Strand	-
Start	1	End	368
Name	OJ991216_03.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	333
GI	none	Score	67
Exons	1..45, 3..44, 162..332, 163..333		

Seq. No.	52056	Seq. ID	OJ991216_03.0419.C18
Gene No.	110118	Strand	-
Start	1	End	368

Name	OJ991216_03.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	3	End	332
GI	none	Score	102
Exons	3..44, 165..332, 172..303		

Seq. No.	52056	Seq. ID	OJ991216_03.0419.C18
Gene No.	110118	Strand	-
Start	1	End	368
Name	OJ991216_03.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3	End	333
GI	none	Score	141
Exons	3..50, 165..332, 169..333		

Seq. No.	52056	Seq. ID	OJ991216_03.0419.C18
Gene No.	110118	Strand	-
Start	1	End	368
Name	OJ991216_03.0419.C18.o1.gs	Method	GENSCAN
Start	135	End	368
GI	none	Score	.4
Exons	135..368		

Seq. No.	52057	Seq. ID	OJ991216_03.0419.C20
Gene No.	110119	Strand	+
Start	82	End	2412
Name	OJ991216_03.0419.C20.o1.gs	Method	GENSCAN
Start	82	End	2412
GI	none	Score	.57
Exons	82..171, 1996..2211, 2365..2412		

Seq. No.	52057	Seq. ID	OJ991216_03.0419.C20
Gene No.	110120	Strand	-
Start	3336	End	3618
Name	OJ991216_03.0419.C20.o2.gs	Method	GENSCAN
Start	3336	End	3618
GI	none	Score	.41
Exons	3336..3361, 3405..3618		

Seq. No.	52058	Seq. ID	OJ991216_03.0419.C21
Gene No.	110121	Strand	+
Start	581	End	1218
Name	OJ991216_03.0419.C21.o1.gs	Method	GENSCAN
Start	581	End	1218
GI	none	Score	.47
Exons	581..603, 1089..1218		

Seq. No.	52059	Seq. ID	OJ991216_03.0419.C23
Gene No.	110122	Strand	+
Start	2162	End	2961
Name	OJ991216_03.0419.C23.o2.gs	Method	GENSCAN
Start	2162	End	2961
GI	none	Score	.87
Exons	2162..2357, 2615..2961		

Seq. No.	52059	Seq. ID	OJ991216_03.0419.C23
Gene No.	110122	Strand	+
Start	2162	End	2961
Name	OJ991216_03.0419.C23.o1.tm	Method	TBLASTX:Maize

Start	2165	End	2813
GI	none	Score	71
Exons	2165..2356, 2238..2300, 2246..2356, 2583..2813, 2617..2811		

Seq. No.	52059	Seq. ID	OJ991216_03.0419.C23
Gene No.	110122	Strand	+
Start	2162	End	2961
Name	OJ991216_03.0419.C23.o1.np	Method	AAT/NAP
Start	2174	End	2952
GI	4514716	Score	342
Exons	2174..2357, 2615..2952		
GI Descrip.	(AB017533) EPc [Nicotiana tabacum]		

Seq. No.	52059	Seq. ID	OJ991216_03.0419.C23
Gene No.	110122	Strand	+
Start	2162	End	2961
Name	OJ991216_03.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	2198	End	2807
GI	none	Score	62
Exons	2198..2356, 2241..2303, 2246..2356, 2616..2714, 2616..2807, 2617..2805, 2784..2807		

Seq. No.	52059	Seq. ID	OJ991216_03.0419.C23
Gene No.	110122	Strand	+
Start	2162	End	2961
Name	OJ991216_03.0419.C23.o1.gp	Method	AAT/GAP
Start	2207	End	2928
GI	95234_1.R1084	Score	732
Exons	2207..2357, 2615..2928		
GI Descrip.	'4514716/dbj\|BAA75495.1\| 1.0e-16 (AB017533) EPc [Nicotiana tabacum]'		

Seq. No.	52060	Seq. ID	OJ991216_03.0419.C28
Gene No.	110123	Strand	+
Start	74	End	1455
Name	OJ991216_03.0419.C28.o1.gs	Method	GENSCAN
Start	74	End	1455
GI	none	Score	.67
Exons	74..352, 444..638, 912..1014, 1385..1455		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110124	Strand	+
Start	1	End	141
Name	OJ991216_03.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	141
GI	7339707	Score	51
Exons	1..141		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110125	Strand	+
Start	328	End	941
Name	OJ991216_03.0419.C29.o1.gs	Method	GENSCAN
Start	328	End	941
GI	none	Score	.88
Exons	328..458, 549..941		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110126	Strand	+
Start	2089	End	3315
Name	OJ991216_03.0419.C29.o2.gs	Method	GENSCAN
Start	2089	End	3315
GI	none	Score	.97
Exons	2089..3315		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110127	Strand	-
Start	5146	End	5487
Name	OJ991216_03.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	2542	End	3644
GI	none	Score	66
Exons	2542..2649, 2557..2907, 2590..2985, 2707..2991, 2763..2900, 2772..2984, 2802..3014, 2806..3198, 3094..3270, 3312..3467, 3525..3644, 3531..3599		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110127	Strand	-
Start	5146	End	5487
Name	OJ991216_03.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	2554	End	3638
GI	none	Score	135
Exons	2554..2856, 2554..2754, 2560..2919, 2599..2649, 2647..2994, 2773..3174, 2850..2993, 2878..3252, 3094..3276, 3372..3461, 3537..3638		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110127	Strand	-
Start	5146	End	5487
Name	OJ991216_03.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	2560	End	3479
GI	none	Score	73
Exons	2560..2808, 2563..2913, 2587..2817, 2680..3012, 2719..2940, 2770..3126, 2772..2993, 2830..3015, 2962..3141, 3055..3252, 3091..3240, 3091..3222, 3099..3245, 3124..3270, 3312..3479		

Seq. No.	52061	Seq. ID	OJ991216_03.0419.C29
Gene No.	110127	Strand	-
Start	5146	End	5487
Name	OJ991216_03.0419.C29.o3.gs	Method	GENSCAN
Start	5146	End	5487
GI	none	Score	.51
Exons	5146..5487		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110128	Strand	+
Start	1	End	2566
Name	OJ991216_03.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	2566
GI	7295549	Score	1147
Exons	1..134, 896..1420, 1817..2264, 2395..2566		
GI Descrip.	(AE003569) CG1518 gene product [Drosophila melanogaster]		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110128	Strand	+

Start	1	End	2566
Name	OJ991216_03.0419.C30.o1.gs	Method	GENSCAN
Start	54	End	2517
GI	none	Score	.82
Exons	54..134, 896..1428, 1887..2264, 2395..2517		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110128	Strand	+
Start	1	End	2566
Name	OJ991216_03.0419.C30.o1.gp	Method	AAT/GAP
Start	895	End	1300
GI	3768146	Score	775
Exons	895..1300		
GI Descrip.	1174470/sp\|P46978\|STT3_MOUSE 2.0e-33 OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) >gi_508543 (L34260) integral membrane protein 1 [Mus musculus] >gi_1588285_prf__2208301A integral membrane protein [Mus musculus]		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110128	Strand	+
Start	1	End	2566
Name	OJ991216_03.0419.C30.o2.gp	Method	AAT/GAP
Start	1273	End	2214
GI	25409_1.R1084	Score	1095
Exons	1273..1428, 1810..2214		
GI Descrip.	'1174470/sp\|P46978\|STT3_MOUSE 2.0e-54 OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) >gi_508543 (L34260) integral membrane protein 1 [Mus musculus] >gi_1588285_prf__2208301A integral membrane protein [Mus musculus]'		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o3.ts	Method	TBLASTX:Soybean
Start	1	End	131
GI	none	Score	207
Exons	1..114, 2..127, 3..131, 3..131		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2	End	2539
GI	none	Score	222
Exons	2..142, 3..140, 866..1378, 910..1359, 1365..1430, 1365..1424, 1807..2265, 1808..2266, 1809..2267, 2156..2272, 2380..2520, 2390..2518, 2396..2539		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o2.tc	Method	TBLASTX:Cress
Start	1019	End	1333
GI	none	Score	323
Exons	1019..1333, 1040..1324, 1060..1332		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	1043	End	2052
GI	none	Score	517
Exons	1043..1378, 1045..1353, 1722..1793, 1781..2050, 1807..2052, 1808..2038, 1809..2051		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o2.ts	Method	TBLASTX:Soybean
Start	2053	End	2482
GI	none	Score	260
Exons	2053..2229, 2055..2153, 2233..2265, 2380..2481, 2390..2482		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	2065	End	2506
GI	none	Score	326
Exons	2065..2265, 2069..2266, 2373..2504, 2380..2505, 2390..2506		

Seq. No.	52062	Seq. ID	OJ991216_03.0419.C30
Gene No.	110129	Strand	-
Start	2411	End	2539
Name	OJ991216_03.0419.C30.o3.gp	Method	AAT/GAP
Start	2411	End	2519
GI	85238_1.R1084	Score	186
Exons	2411..2519		
GI Descrip.	'1174470/sp\|P46978\|STT3_MOUSE 1.0e-26 OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) >gi_508543 (L34260) integral membrane protein 1 [Mus musculus] >gi_1588285_prf__2208301A integral membrane protein [Mus musculus]'		

Seq. No.	52063	Seq. ID	OJ991216_03.0419.C31
Gene No.	110130	Strand	-
Start	279	End	631
Name	OJ991216_03.0419.C31.o1.gs	Method	GENSCAN
Start	279	End	631
GI	none	Score	.54
Exons	279..631		

Seq. No.	52064	Seq. ID	OJ991216_03.0419.C33
Gene No.	110131	Strand	-
Start	299	End	930
Name	OJ991216_03.0419.C33.o1.gs	Method	GENSCAN
Start	299	End	930
GI	none	Score	.74
Exons	299..415, 755..930		

Seq. No.	52065	Seq. ID	OJ991216_03.0419.C36
Gene No.	110132	Strand	-

Start	1096	End	1230
Name	OJ991216_03.0419.C36.o1.gp	Method	AAT/GAP
Start	1096	End	1230
GI	6547_4.R1084	Score	212
Exons	1096..1230		
GI Descrip.	'3402817/emb\|CAA07704\| 1.0e-18 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	52066	Seq. ID	OJ991216_03.0419.C37
Gene No.	110133	Strand	+
Start	32	End	208
Name	OJ991216_03.0419.C37.o1.gs	Method	GENSCAN
Start	32	End	208
GI	none	Score	.83
Exons	32..208		

Seq. No.	52067	Seq. ID	OJ991216_03.0419.C42
Gene No.	110134	Strand	-
Start	748	End	1012
Name	OJ991216_03.0419.C42.o1.gs	Method	GENSCAN
Start	748	End	1012
GI	none	Score	.97
Exons	748..807, 896..1012		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110135	Strand	+
Start	855	End	3035
Name	OJ991216_03.0419.C43.o1.gp	Method	AAT/GAP
Start	855	End	1676
GI	3548954	Score	654
Exons	855..1027, 1492..1676		
GI Descrip.	4406761/gb\|AAD20072\| 7.0e-17 (AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110135	Strand	+
Start	855	End	3035
Name	OJ991216_03.0419.C43.o1.np	Method	AAT/NAP
Start	1490	End	2720
GI	4406761	Score	903
Exons	1490..1675, 2230..2720		
GI Descrip.	(AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110135	Strand	+
Start	855	End	3035
Name	OJ991216_03.0419.C43.o2.gp	Method	AAT/GAP
Start	2314	End	3035
GI	32010_1.R1084	Score	1393
Exons	2314..3035		
GI Descrip.	'4406761/gb\|AAD20072\| 2.0e-42 (AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]'		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110136	Strand	-
Start	114	End	965

Name	OJ991216_03.0419.C43.o1.gs	Method	GENSCAN
Start	114	End	965
GI	none	Score	.84
Exons	114..245, 429..563, 876..965		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o3.ts	Method	TBLASTX:Soybean
Start	216	End	460
GI	none	Score	190
Exons	216..281, 317..460		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o2.tc	Method	TBLASTX:Cress
Start	1415	End	1678
GI	none	Score	257
Exons	1415..1678, 1504..1677		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	1487	End	2310
GI	none	Score	288
Exons	1487..1675, 1489..1677, 2227..2310, 2228..2305, 2229..2309		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o2.ts	Method	TBLASTX:Soybean
Start	1493	End	2319
GI	none	Score	236
Exons	1493..1675, 1516..1677, 1519..1674, 2266..2319		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o2.gs	Method	GENSCAN
Start	2344	End	3231
GI	none	Score	.71
Exons	2344..2460, 2941..2978, 3188..3231		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	2347	End	2711
GI	none	Score	299
Exons	2347..2631, 2442..2630, 2637..2708, 2637..2711		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o1.tm	Method	TBLASTX:Maize

Start	2392	End	2729
GI	none	Score	272
Exons	2392..2631, 2397..2630, 2635..2724, 2637..2729		

Seq. No.	52068	Seq. ID	OJ991216_03.0419.C43
Gene No.	110137	Strand	-
Start	2344	End	3231
Name	OJ991216_03.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	2475	End	2708
GI	none	Score	214
Exons	2475..2630, 2476..2631, 2637..2708, 2641..2670		

Seq. No.	52069	Seq. ID	OJ991216_03.0419.C44
Gene No.	110138	Strand	+
Start	432	End	1400
Name	OJ991216_03.0419.C44.o1.gs	Method	GENSCAN
Start	432	End	1400
GI	none	Score	.74
Exons	432..451, 986..1400		

Seq. No.	52070	Seq. ID	OJ991216_03.0419.C45
Gene No.	110139	Strand	-
Start	1	End	1461
Name	OJ991216_03.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1042
GI	5734789	Score	639
Exons	1..1042		
GI Descrip.	(AC007980) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52070	Seq. ID	OJ991216_03.0419.C45
Gene No.	110139	Strand	-
Start	1	End	1461
Name	OJ991216_03.0419.C45.o1.gs	Method	GENSCAN
Start	31	End	1461
GI	none	Score	.92
Exons	31..1081, 1134..1237, 1376..1461		

Seq. No.	52070	Seq. ID	OJ991216_03.0419.C45
Gene No.	110139	Strand	-
Start	1	End	1461
Name	OJ991216_03.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	428	End	980
GI	none	Score	66
Exons	428..535, 462..578, 665..979, 681..980		

Seq. No.	52070	Seq. ID	OJ991216_03.0419.C45
Gene No.	110139	Strand	-
Start	1	End	1461
Name	OJ991216_03.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	465	End	818
GI	none	Score	123
Exons	465..578, 467..577, 566..664, 570..665, 659..817, 678..818		

Seq. No.	52070	Seq. ID	OJ991216_03.0419.C45
Gene No.	110139	Strand	-
Start	1	End	1461
Name	OJ991216_03.0419.C45.o1.ts	Method	TBLASTX:Soybean

Start	803	End	1024
GI	none	Score	109
Exons	803..1024, 804..989		

Seq. No.	52071	Seq. ID	OJ991216_03.0419.C46
Gene No.	110140	Strand	-
Start	1	End	723
Name	OJ991216_03.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	723
GI	7496179	Score	111
Exons	1..162, 696..723		
GI Descrip.	hypothetical protein C17D12.1b - Caenorhabditis elegans gi\|3947545\|emb\|CAB03898.1\| (Z81473) cDNA EST EMBL:D75353 comes from this gene; cDNA EST EMBL:D72468 comes from this gene [Caenorhabditis elegans]		

Seq. No.	52071	Seq. ID	OJ991216_03.0419.C46
Gene No.	110140	Strand	-
Start	1	End	723
Name	OJ991216_03.0419.C46.o1.gp	Method	AAT/GAP
Start	224	End	723
GI	uC-osroM202035e08b1	Score	635
Exons	224..349, 474..723		
GI Descrip.	'5103809/gb\|AAD39639.1\|AC007591_4 7.0e-45 (AC007591) Similar to gb_AF099053 phosphatidylserine synthase-2 from Mus musculus. EST gb_N96271 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	52071	Seq. ID	OJ991216_03.0419.C46
Gene No.	110140	Strand	-
Start	1	End	723
Name	OJ991216_03.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	252	End	708
GI	none	Score	98
Exons	252..350, 252..347, 253..390, 562..657, 578..658, 587..664,	254..349, 472..582, 473..592, 634..708, 657..707	

Seq. No.	52072	Seq. ID	OJ991216_03.0419.C47
Gene No.	110141	Strand	+
Start	134	End	343
Name	OJ991216_03.0419.C47.o1.gs	Method	GENSCAN
Start	134	End	343
GI	none	Score	.44
Exons	134..343		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110142	Strand	+
Start	3718	End	4462
Name	OJ991216_03.0419.C49.o2.gs	Method	GENSCAN
Start	3718	End	4462
GI	none	Score	.85
Exons	3718..3773, 4161..4200, 4247..4462		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	2411

GI	4972236	Score	824
Exons	1..23, 375..759, 1443..1643, 1732..1944, 2202..2411		
GI Descrip.	(AJ006349) endo-beta-1,4-glucanase [Fragaria x ananassa]		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o1.gs	Method	GENSCAN
Start	352	End	3204
GI	none	Score	.65
Exons	352..759, 1443..1643, 1732..1944, 2202..2663, 3127..3204		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	373	End	1945
GI	none	Score	67
Exons	373..498, 493..576, 500..577, 628..747, 674..760, 1440..1622, 1495..1644, 1729..1944, 1760..1801, 1838..1945		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o2.ts	Method	TBLASTX:Soybean
Start	373	End	747
GI	none	Score	78
Exons	373..498, 493..747, 500..595		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o2.tm	Method	TBLASTX:Maize
Start	526	End	763
GI	none	Score	140
Exons	526..747, 527..763		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	1440	End	1947
GI	none	Score	117
Exons	1440..1622, 1441..1644, 1729..1947, 1730..1945		

Seq. No.	52073	Seq. ID	OJ991216_03.0419.C49
Gene No.	110143	Strand	-
Start	1	End	3204
Name	OJ991216_03.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	1491	End	2327
GI	none	Score	125
Exons	1491..1622, 1492..1647, 1542..1655, 1618..1641, 1729..1944, 1757..1945, 2199..2327, 2215..2298		

Seq. No.	52074	Seq. ID	OJ991216_03.0419.C50
Gene No.	110144	Strand	-
Start	1029	End	1244

Name	OJ991216_03.0419.C50.o1.gs	Method	GENSCAN
Start	1029	End	1244
GI	none	Score	1
Exons	1029..1244		

Seq. No.	52075	Seq. ID	OJ991216_03.0419.C51
Gene No.	110145	Strand	+
Start	263	End	379
Name	OJ991216_03.0419.C51.o1.gs	Method	GENSCAN
Start	263	End	379
GI	none	Score	.56
Exons	263..379		

Seq. No.	52076	Seq. ID	OJ991216_03.0419.C53
Gene No.	110146	Strand	+
Start	197	End	568
Name	OJ991216_03.0419.C53.o1.gs	Method	GENSCAN
Start	197	End	568
GI	none	Score	.92
Exons	197..211, 518..568		

Seq. No.	52077	Seq. ID	OJ991216_03.0419.C59
Gene No.	110147	Strand	+
Start	17	End	735
Name	OJ991216_03.0419.C59.o1.gs	Method	GENSCAN
Start	17	End	735
GI	none	Score	.77
Exons	17..142, 279..399, 656..735		

Seq. No.	52078	Seq. ID	OJ991216_03.0419.C62
Gene No.	110148	Strand	+
Start	472	End	1381
Name	OJ991216_03.0419.C62.o1.gs	Method	GENSCAN
Start	472	End	1381
GI	none	Score	.58
Exons	472..806, 908..939, 1362..1381		

Seq. No.	52078	Seq. ID	OJ991216_03.0419.C62
Gene No.	110149	Strand	-
Start	534	End	830
Name	OJ991216_03.0419.C62.o1.gp	Method	AAT/GAP
Start	534	End	719
GI	3106747	Score	285
Exons	534..719		

Seq. No.	52078	Seq. ID	OJ991216_03.0419.C62
Gene No.	110149	Strand	-
Start	534	End	830
Name	OJ991216_03.0419.C62.o1.tm	Method	TBLASTX:Maize
Start	535	End	830
GI	none	Score	230
Exons	535..732, 539..712, 799..828, 813..830		

Seq. No.	52078	Seq. ID	OJ991216_03.0419.C62
Gene No.	110149	Strand	-
Start	534	End	830
Name	OJ991216_03.0419.C62.o1.np	Method	AAT/NAP

Start	538	End	783
GI	4734009	Score	71
Exons	538..783		
GI Descrip.	(AC007178) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52079	Seq. ID	OJ991216_03.0419.C65
Gene No.	110150	Strand	+
Start	6	End	2057
Name	OJ991216_03.0419.C65.o1.gs	Method	GENSCAN
Start	6	End	2057
GI	none	Score	.81
Exons	6..51, 110..682, 1373..1500, 1596..2057		

Seq. No.	52080	Seq. ID	OJ991216_03.0419.C70
Gene No.	110151	Strand	+
Start	203	End	834
Name	OJ991216_03.0419.C70.o1.gs	Method	GENSCAN
Start	203	End	834
GI	none	Score	.63
Exons	203..272, 390..511, 778..834		

Seq. No.	52081	Seq. ID	OJ991216_03.0419.C71
Gene No.	110152	Strand	+
Start	1	End	751
Name	OJ991216_03.0419.C71.o1.np	Method	AAT/NAP
Start	1	End	751
GI	2462829	Score	201
Exons	1..28, 337..751		
GI Descrip.	(AF000657) unknown protein [Arabidopsis thaliana]		

Seq. No.	52081	Seq. ID	OJ991216_03.0419.C71
Gene No.	110152	Strand	+
Start	1	End	751
Name	OJ991216_03.0419.C71.o1.tm	Method	TBLASTX:Maize
Start	315	End	577
GI	none	Score	236
Exons	315..575, 339..551, 515..577, 516..575		

Seq. No.	52081	Seq. ID	OJ991216_03.0419.C71
Gene No.	110152	Strand	+
Start	1	End	751
Name	OJ991216_03.0419.C71.o1.gs	Method	GENSCAN
Start	340	End	732
GI	none	Score	.94
Exons	340..732		

Seq. No.	52081	Seq. ID	OJ991216_03.0419.C71
Gene No.	110152	Strand	+
Start	1	End	751
Name	OJ991216_03.0419.C71.o1.ts	Method	TBLASTX:Soybean
Start	348	End	725
GI	none	Score	183
Exons	348..509, 353..460, 450..506, 594..725		

Seq. No.	52082	Seq. ID	OJ991216_03.0419.C73
Gene No.	110153	Strand	-
Start	1	End	718

Name	OJ991216_03.0419.C73.o1.np	Method	AAT/NAP
Start	1	End	718
GI	5103809	Score	94
Exons	1..28, 175..292, 689..718		
GI Descrip.	(AC007591) Similar to gb\|AF099053 phosphatidylserine synthase-2 from Mus musculus. EST gb\|N96271 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	52082	Seq. ID	OJ991216_03.0419.C73
Gene No.	110153	Strand	-
Start	1	End	718
Name	OJ991216_03.0419.C73.o1.gs	Method	GENSCAN
Start	198	End	206
GI	none	Score	.73
Exons	198..206		

Seq. No.	52083	Seq. ID	OJ991216_03.0419.C75
Gene No.	110154	Strand	-
Start	1	End	555
Name	OJ991216_03.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	378
GI	7228446	Score	326
Exons	1..378		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	52083	Seq. ID	OJ991216_03.0419.C75
Gene No.	110154	Strand	-
Start	1	End	555
Name	OJ991216_03.0419.C75.o1.tw	Method	TBLASTX:Wheat
Start	16	End	309
GI	none	Score	173
Exons	16..309		

Seq. No.	52083	Seq. ID	OJ991216_03.0419.C75
Gene No.	110154	Strand	-
Start	1	End	555
Name	OJ991216_03.0419.C75.o1.gs	Method	GENSCAN
Start	163	End	555
GI	none	Score	.97
Exons	163..555		

Seq. No.	52083	Seq. ID	OJ991216_03.0419.C75
Gene No.	110154	Strand	-
Start	1	End	555
Name	OJ991216_03.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	169	End	451
GI	none	Score	107
Exons	169..438, 263..451		

Seq. No.	52084	Seq. ID	OJ991216_03.0419.C77
Gene No.	110155	Strand	+
Start	583	End	1532
Name	OJ991216_03.0419.C77.o1.gs	Method	GENSCAN
Start	583	End	1532
GI	none	Score	.82

Exons	583..671, 1070..1532		
Seq. No.	52084	Seq. ID	OJ991216_03.0419.C77
Gene No.	110156	Strand	-
Start	1	End	1755
Name	OJ991216_03.0419.C77.o1.np	Method	AAT/NAP
Start	1	End	1755
GI	6978921	Score	263
Exons	1..60, 491..901, 1681..1755		
GI Descrip.	(AC021665) putative ABC transporter [Arabidopsis thaliana]		
Seq. No.	52084	Seq. ID	OJ991216_03.0419.C77
Gene No.	110156	Strand	-
Start	1	End	1755
Name	OJ991216_03.0419.C77.o1.ts	Method	TBLASTX:Soybean
Start	519	End	847
GI	none	Score	40
Exons	519..584, 520..579, 638..766, 639..728, 776..847, 777..845		
Seq. No.	52085	Seq. ID	OJ991216_03.0419.C78
Gene No.	110157	Strand	+
Start	411	End	492
Name	OJ991216_03.0419.C78.o1.gs	Method	GENSCAN
Start	411	End	492
GI	none	Score	.75
Exons	411..492		
Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.gp	Method	AAT/GAP
Start	1	End	266
GI	2311827	Score	504
Exons	1..266		
GI Descrip.	2160694 2.0e-09 (U73528) B' regulatory subunit of PP2A [Arabidopsis thaliana]		
Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.tm	Method	TBLASTX:Maize
Start	19	End	1187
GI	none	Score	104
Exons	19..87, 20..130, 24..248, 26..400, 27..401, 970..1185, 971..1186, 971..1186, 972..1187		
Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.np	Method	AAT/NAP
Start	29	End	1035
GI	7160008	Score	666
Exons	29..394, 973..1035		
GI Descrip.	(AJ272423) putative B' regulatory subunit of PP2A [Oryza sativa]		
Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-

Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.ts	Method	TBLASTX:Soybean
Start	53	End	1044
GI	none	Score	139
Exons	53..400, 129..401, 970..1044, 971..1039		

Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.tc	Method	TBLASTX:Cress
Start	68	End	1144
GI	none	Score	200
Exons	68..400, 72..401, 967..1143, 971..1144		

Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.tw	Method	TBLASTX:Wheat
Start	116	End	392
GI	none	Score	125
Exons	116..391, 129..392		

Seq. No.	52086	Seq. ID	OJ991216_03.0419.C85
Gene No.	110158	Strand	-
Start	1	End	1187
Name	OJ991216_03.0419.C85.o1.gs	Method	GENSCAN
Start	191	End	1089
GI	none	Score	.64
Exons	191..394, 973..1089		

Seq. No.	52087	Seq. ID	OJ991216_03.0419.C86
Gene No.	110159	Strand	+
Start	909	End	1135
Name	OJ991216_03.0419.C86.o1.gs	Method	GENSCAN
Start	909	End	1135
GI	none	Score	.74
Exons	909..1019, 1094..1135		

Seq. No.	52087	Seq. ID	OJ991216_03.0419.C86
Gene No.	110160	Strand	-
Start	1490	End	1751
Name	OJ991216_03.0419.C86.o2.gs	Method	GENSCAN
Start	1490	End	1751
GI	none	Score	.51
Exons	1490..1751		

Seq. No.	52088	Seq. ID	OJ991116_09.0414.C4
Gene No.	110161	Strand	-
Start	435	End	1298
Name	OJ991116_09.0414.C4.o1.np	Method	AAT/NAP
Start	435	End	1298
GI	7508121	Score	78
Exons	435..531, 704..806, 1008..1195, 1270..1298		
GI Descrip.	hypothetical protein T21C9.12 - Caenorhabditis elegans gi\|3880023\|emb\|CAA97339.1\| (Z73098) Similarity to yeast hypothetical protein (Swiss Prot accession number Q09695); cDNA EST EMBL:D72982 comes from this gene; cDNA EST EMBL:D75947 comes		

from this gene [Caenorhabditis elegans]

Seq. No.	52088	Seq. ID	OJ991116_09.0414.C4
Gene No.	110161	Strand	-
Start	435	End	1298
Name	OJ991116_09.0414.C4.o1.tc	Method	TBLASTX:Cress
Start	703	End	1173
GI	none	Score	102
Exons	703..804, 995..1165, 1005..1166, 1005..1163, 1009..1173		

Seq. No.	52088	Seq. ID	OJ991116_09.0414.C4
Gene No.	110161	Strand	-
Start	435	End	1298
Name	OJ991116_09.0414.C4.o1.gs	Method	GENSCAN
Start	704	End	1164
GI	none	Score	.82
Exons	704..806, 1008..1164		

Seq. No.	52088	Seq. ID	OJ991116_09.0414.C4
Gene No.	110161	Strand	-
Start	435	End	1298
Name	OJ991116_09.0414.C4.o1.ts	Method	TBLASTX:Soybean
Start	718	End	1144
GI	none	Score	76
Exons	718..810, 719..811, 919..1047, 920..1027, 1030..1143, 1061..1144		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110162	Strand	+
Start	3371	End	6446
Name	OJ991116_09.0414.C5.o1.gs	Method	GENSCAN
Start	3371	End	6256
GI	none	Score	.5
Exons	3371..3532, 3922..3993, 4113..4166, 4253..4335, 4429..4467, 4574..4745, 6092..6256		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110162	Strand	+
Start	3371	End	6446
Name	OJ991116_09.0414.C5.o2.gp	Method	AAT/GAP
Start	4030	End	6446
GI	16640_1.R1084	Score	1382
Exons	4030..4166, 4253..4335, 4429..4467, 4574..4626, 4715..4778, 4883..4925, 5001..5048, 6092..6446		
GI Descrip.	'6041796/gb\|AAF02116.1\|AC009755_9 5.0e-24 (AC009755) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110162	Strand	+
Start	3371	End	6446
Name	OJ991116_09.0414.C5.o1.np	Method	AAT/NAP
Start	4086	End	6203
GI	6041796	Score	332
Exons	4086..4166, 4253..4335, 4429..4467, 4574..4626, 4715..4778, 4883..4925, 5001..5048, 6092..6203		
GI Descrip.	(AC009755) unknown protein [Arabidopsis thaliana]		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5

Gene No.	110163	Strand	+
Start	9102	End	9550
Name	OJ991116_09.0414.C5.o3.gp	Method	AAT/GAP
Start	9102	End	9550
GI	none	Score	820
Exons	9102..9550		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110164	Strand	-
Start	375	End	3257
Name	OJ991116_09.0414.C5.o1.gp	Method	AAT/GAP
Start	375	End	3257
GI	none	Score	738
Exons	375..401, 1244..1282, 1578..1688, 2945..3064, 3146..3257		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o3.tm	Method	TBLASTX:Maize
Start	1576	End	3303
GI	none	Score	158
Exons	1576..1716, 1576..1701, 1578..1706, 2942..3064, 2952..3065, 3140..3223, 3147..3236, 3223..3303, 3226..3279		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o1.tm	Method	TBLASTX:Maize
Start	4076	End	5042
GI	none	Score	157
Exons	4076..4168, 4083..4166, 4246..4341, 4253..4342, 4426..4470, 4427..4465, 4577..4639, 4587..4622, 4712..4777, 4713..4778, 4716..4778, 4717..4779, 4882..4929, 4998..5042		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o1.tc	Method	TBLASTX:Cress
Start	4086	End	6202
GI	none	Score	112
Exons	4086..4166, 4094..4168, 4246..4341, 4253..4342, 4427..4465, 4587..4628, 4717..4779, 6137..6202		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o1.ts	Method	TBLASTX:Soybean
Start	4089	End	6241
GI	none	Score	128
Exons	4089..4166, 4100..4168, 4246..4329, 4253..4342, 4427..4465, 4587..4628, 4717..4779, 6077..6241		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o1.tw	Method	TBLASTX:Wheat
Start	4113	End	4738

GI	none	Score	94
Exons	4113..4166, 4118..4168, 4118..4168, 4246..4341, 4253..4342, 4426..4470, 4427..4465, 4577..4642, 4587..4628, 4706..4738		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o2.tm	Method	TBLASTX:Maize
Start	9262	End	9548
GI	none	Score	307
Exons	9262..9540, 9291..9548		

Seq. No.	52089	Seq. ID	OJ991116_09.0414.C5
Gene No.	110165	Strand	-
Start	12092	End	12164
Name	OJ991116_09.0414.C5.o4.gp	Method	AAT/GAP
Start	12092	End	12164
GI	LIB3477-003-P1-K1-E9	Score	116
Exons	12092..12164		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110166	Strand	+
Start	3158	End	6106
Name	OJ991116_09.0414.C6.o2.gs	Method	GENSCAN
Start	3158	End	6106
GI	none	Score	.93
Exons	3158..3431, 3583..3671, 4017..4053, 4766..4827, 4923..5036, 5812..5916, 5999..6106		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110167	Strand	-
Start	1811	End	2488
Name	OJ991116_09.0414.C6.o1.gs	Method	GENSCAN
Start	1811	End	2488
GI	none	Score	.86
Exons	1811..2488		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o2.tm	Method	TBLASTX:Maize
Start	4008	End	6099
GI	none	Score	62
Exons	4008..4058, 4016..4051, 4723..4827, 4764..4829, 4764..4826, 4765..4839, 4917..5036, 4923..5036, 5803..5916, 5808..5930, 5811..5915, 5812..5916, 5998..6099, 5999..6097, 6000..6098		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o1.ts	Method	TBLASTX:Soybean
Start	4986	End	6097
GI	none	Score	64
Exons	4986..5033, 5811..5969, 5812..5916, 5989..6090, 5999..6097		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o2.tc	Method	TBLASTX:Cress
Start	5808	End	6097
GI	none	Score	189
Exons	5808..5903, 5809..5916, 5812..5928, 5998..6093, 5999..6097		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o1.gp	Method	AAT/GAP
Start	6850	End	8770
GI	255_2.R1084	Score	3171
Exons	6850..7375, 7458..7937, 8042..8316, 8406..8770		
GI Descrip.	'121469/sp\|P07728\|GU11_ORYSA 0.0e+00 GLUTELIN TYPE I PRECURSOR (CLONE PREE 61) >gi_82474_pir__S06350 glutelin type I precursor (clone pREE61) - rice >gi_20215_emb_CAA29149_ (X05661) glutelin [Oryza sativa]'		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o3.gs	Method	GENSCAN
Start	6962	End	9534
GI	none	Score	.74
Exons	6962..7375, 7596..7712, 8042..8316, 8406..8666, 9408..9534		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o1.np	Method	AAT/NAP
Start	6965	End	8736
GI	121469	Score	2499
Exons	6965..7375, 7458..7937, 8042..8316, 8406..8736		
GI Descrip.	GLUTELIN TYPE I PRECURSOR (CLONE PREE 61) gi\|82474\|pir\|\|S06350 glutelin type I precursor (clone pREE61) - rice gi\|20215\|emb\|CAA29149\| (X05661) glutelin [Oryza sativa]		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o1.tm	Method	TBLASTX:Maize
Start	6992	End	8529
GI	none	Score	199
Exons	6992..7384, 6993..7373, 7456..7608, 7458..7607, 7752..7874, 7753..7869, 8042..8197, 8052..8186, 8238..8327, 8276..8326, 8404..8529, 8405..8497		

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o1.tc	Method	TBLASTX:Cress
Start	7049	End	8610
GI	none	Score	101
Exons	7049..7378, 7074..7376, 7473..7631, 7498..7629, 7728..7931,		

8042..8230, 8054..8227, 8270..8326, 8277..8318, 8404..8610

Seq. No.	52090	Seq. ID	OJ991116_09.0414.C6
Gene No.	110168	Strand	-
Start	6850	End	9534
Name	OJ991116_09.0414.C6.o2.ts	Method	TBLASTX:Soybean
Start	7133	End	8218
GI	none	Score	102
Exons	7133..7345, 7169..7345, 7728..7808, 8150..8218		

Seq. No.	52091	Seq. ID	OJ991116_09.0414.C7
Gene No.	110169	Strand	+
Start	1587	End	2758
Name	OJ991116_09.0414.C7.o1.gs	Method	GENSCAN
Start	1587	End	2758
GI	none	Score	.89
Exons	1587..1851, 1958..2007, 2483..2559, 2683..2758		

Seq. No.	52091	Seq. ID	OJ991116_09.0414.C7
Gene No.	110170	Strand	-
Start	2921	End	3256
Name	OJ991116_09.0414.C7.o1.tm	Method	TBLASTX:Maize
Start	2474	End	2737
GI	none	Score	144
Exons	2474..2572, 2479..2565, 2681..2725, 2682..2729, 2686..2730, 2686..2736, 2687..2737		

Seq. No.	52091	Seq. ID	OJ991116_09.0414.C7
Gene No.	110170	Strand	-
Start	2921	End	3256
Name	OJ991116_09.0414.C7.o2.gs	Method	GENSCAN
Start	2921	End	3256
GI	none	Score	.65
Exons	2921..3046, 3167..3256		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o4.tw	Method	TBLASTX:Wheat
Start	584	End	981
GI	none	Score	128
Exons	584..682, 585..719, 696..980, 770..961, 820..981		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o1.np	Method	AAT/NAP
Start	690	End	4493
GI	6630696	Score	6583
Exons	690..4493		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493

Name	OJ991116_09.0414.C8.o1.gp	Method	AAT/GAP
Start	732	End	1622
GI	101595_1.R1084	Score	1439
Exons	732..1432, 1548..1622		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o4.tm	Method	TBLASTX:Maize
Start	732	End	1040
GI	none	Score	318
Exons	732..1040, 779..961, 832..975, 861..1037		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o1.tm	Method	TBLASTX:Maize
Start	1563	End	1907
GI	none	Score	385
Exons	1563..1835, 1564..1836, 1565..1837, 1565..1837, 1866..1907		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o5.ts	Method	TBLASTX:Soybean
Start	1881	End	2261
GI	none	Score	87
Exons	1881..2030, 2013..2261		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o5.tm	Method	TBLASTX:Maize
Start	2019	End	2483
GI	none	Score	313
Exons	2019..2483, 2258..2476		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o5.tw	Method	TBLASTX:Wheat
Start	2126	End	2325
GI	none	Score	278
Exons	2126..2323, 2127..2324, 2134..2325, 2134..2325		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o2.ts	Method	TBLASTX:Soybean
Start	2271	End	2669
GI	none	Score	207
Exons	2271..2492, 2273..2488, 2496..2669		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+

Start	690	End	4493
Name	OJ991116_09.0414.C8.o1.tw	Method	TBLASTX:Wheat
Start	2326	End	3074
GI	none	Score	290
Exons	2326..2487, 2327..2785, 2327..2824, 2334..3074, 2524..3069, 2885..3070, 2892..3074		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o1.ts	Method	TBLASTX:Soybean
Start	2994	End	3458
GI	5509260	Score	384
Exons	2994..3458, 3089..3250		
GI Descrip.	-		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o1.tc	Method	TBLASTX:Cress
Start	3087	End	3347
GI	none	Score	287
Exons	3087..3347, 3089..3259		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o2.tm	Method	TBLASTX:Maize
Start	3128	End	3593
GI	none	Score	355
Exons	3128..3259, 3129..3593, 3264..3344, 3380..3490		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o3.tw	Method	TBLASTX:Wheat
Start	3129	End	3674
GI	none	Score	312
Exons	3129..3473, 3146..3310, 3468..3674		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o3.ts	Method	TBLASTX:Soybean
Start	3527	End	3875
GI	none	Score	141
Exons	3527..3691, 3528..3686, 3686..3874, 3687..3875		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o3.tm	Method	TBLASTX:Maize
Start	3654	End	4025
GI	none	Score	349
Exons	3654..4025, 3677..4024		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8

Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o2.tw	Method	TBLASTX:Wheat
Start	3882	End	4357
GI	none	Score	105
Exons	3882..3956, 3883..3942, 3887..3955, 3971..4357, 3972..4355, 3973..4356		

Seq. No.	52092	Seq. ID	OJ991116_09.0414.C8
Gene No.	110171	Strand	+
Start	690	End	4493
Name	OJ991116_09.0414.C8.o4.ts	Method	TBLASTX:Soybean
Start	3888	End	4229
GI	none	Score	97
Exons	3888..4001, 3923..3991, 4020..4229, 4025..4150		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110172	Strand	+
Start	1	End	3889
Name	OJ991116_09.0414.C9.o1.np	Method	AAT/NAP
Start	1	End	3835
GI	7406414	Score	2302
Exons	1..348, 718..1581, 2088..2231, 2321..2654, 2703..2906, 2964..3214, 3734..3835		
GI Descrip.	(AL162873) putative protein [Arabidopsis thaliana]		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110172	Strand	+
Start	1	End	3889
Name	OJ991116_09.0414.C9.o1.gs	Method	GENSCAN
Start	103	End	3889
GI	none	Score	.96
Exons	103..348, 718..1581, 2321..3889		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110172	Strand	+
Start	1	End	3889
Name	OJ991116_09.0414.C9.o1.gp	Method	AAT/GAP
Start	3070	End	3413
GI	4716260	Score	617
Exons	3070..3413		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110173	Strand	-
Start	4292	End	5270
Name	OJ991116_09.0414.C9.o2.gs	Method	GENSCAN
Start	4292	End	5270
GI	none	Score	.76
Exons	4292..5020, 5160..5270		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o4.tm	Method	TBLASTX:Maize
Start	202	End	849
GI	none	Score	217
Exons	202..351, 252..350, 715..849, 715..846, 717..848		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o1.tw	Method	TBLASTX:Wheat
Start	310	End	920
GI	none	Score	76
Exons	310..363, 715..855, 715..873, 717..902, 855..920, 870..920		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o2.ts	Method	TBLASTX:Soybean
Start	715	End	966
GI	none	Score	303
Exons	715..966, 715..948, 716..949, 717..965		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o1.tc	Method	TBLASTX:Cress
Start	1015	End	1584
GI	none	Score	543
Exons	1015..1086, 1017..1379, 1018..1395, 1103..1426, 1126..1404, 1416..1532, 1417..1584, 1424..1534		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o1.ts	Method	TBLASTX:Soybean
Start	1071	End	2225
GI	none	Score	438
Exons	1071..1397, 1072..1398, 1126..1425, 1396..1584, 1416..1532, 1420..1581, 2076..2210, 2086..2199, 2088..2225, 2102..2215		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o1.tm	Method	TBLASTX:Maize
Start	2079	End	2781
GI	none	Score	164
Exons	2079..2189, 2082..2192, 2084..2191, 2183..2242, 2190..2243, 2193..2249, 2317..2499, 2317..2475, 2318..2512, 2318..2491, 2501..2611, 2548..2610, 2657..2779, 2701..2781		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o2.tc	Method	TBLASTX:Cress
Start	2087	End	2422
GI	none	Score	232
Exons	2087..2242, 2088..2243, 2307..2420, 2318..2422, 2318..2410		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o3.ts	Method	TBLASTX:Soybean

Start	2301	End	2715
GI	none	Score	89
Exons	2301..2453, 2318..2512, 2318..2485, 2453..2626, 2581..2607, 2636..2713, 2686..2715		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o4.tc	Method	TBLASTX:Cress
Start	2579	End	3130
GI	none	Score	39
Exons	2579..2608, 2707..2877, 2708..2899, 3020..3130, 3025..3129		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o3.tm	Method	TBLASTX:Maize
Start	2782	End	3085
GI	none	Score	133
Exons	2782..2916, 2783..2932, 2783..2917, 2949..3083, 2951..3085, 2951..3085		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o4.ts	Method	TBLASTX:Soybean
Start	4724	End	4966
GI	none	Score	199
Exons	4724..4966		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o5.tc	Method	TBLASTX:Cress
Start	4724	End	5020
GI	none	Score	204
Exons	4724..5020		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o3.gs	Method	GENSCAN
Start	8077	End	8425
GI	none	Score	.74
Exons	8077..8425		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o2.np	Method	AAT/NAP
Start	8083	End	8499
GI	100680	Score	549
Exons	8083..8499		
GI Descrip.	glutelin 22 precursor - rice		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-

Start	8077	End	8499
Name	OJ991116_09.0414.C9.o2.tm	Method	TBLASTX:Maize
Start	8122	End	8495
GI	none	Score	177
Exons	8122..8424, 8126..8416, 8400..8486, 8409..8495		

Seq. No.	52093	Seq. ID	OJ991116_09.0414.C9
Gene No.	110174	Strand	-
Start	8077	End	8499
Name	OJ991116_09.0414.C9.o3.tc	Method	TBLASTX:Cress
Start	8155	End	8486
GI	none	Score	140
Exons	8155..8415, 8186..8416, 8305..8427, 8418..8486		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o4.np	Method	AAT/NAP
Start	1	End	14033
GI	7340909	Score	102
Exons	1..58, 4226..4398, 11850..12011, 13946..14033		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o1.gs	Method	GENSCAN
Start	807	End	3353
GI	none	Score	.82
Exons	807..843, 2759..3009, 3096..3353		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o3.np	Method	AAT/NAP
Start	2667	End	4011
GI	7339707	Score	96
Exons	2667..2882, 3030..3170, 3550..3762, 3876..4011		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o2.np	Method	AAT/NAP
Start	3242	End	3813
GI	231574	Score	278
Exons	3242..3423, 3454..3813		
GI Descrip.	L-ASPARAGINASE (L-ASPARAGINE AMIDOHYDROLASE) gi\|81837\|pir\|\|S22523 asparaginase (EC 3.5.1.1) - tree lupine (fragment) gi\|19137\|emb\|CAA36824\| (X52588) asparaginase [Lupinus arboreus]		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o3.gs	Method	GENSCAN
Start	8194	End	12790

GI	none	Score	.62
Exons	8194..8246, 8983..9194, 9367..9401, 9690..9758, 10938..11138, 12235..12277, 12687..12790		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110175	Strand	+
Start	1	End	14033
Name	OJ991116_09.0414.C10.o5.np	Method	AAT/NAP
Start	13537	End	14033
GI	6850341	Score	182
Exons	13537..13633, 13794..14033		
GI Descrip.	(AC022354) putative peptide transporter [Arabidopsis thaliana]		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110176	Strand	-
Start	1	End	1298
Name	OJ991116_09.0414.C10.o1.np	Method	AAT/NAP
Start	1	End	1298
GI	1707986	Score	1508
Exons	1..501, 614..890, 971..1298		
GI Descrip.	GLUTELIN TYPE-A III PRECURSOR gi\|283003\|pir\|\|S18745 glutelin - rice gi\|20208\|emb\|CAA38211\| (X54313) glutelin [Oryza sativa]		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o3.tm	Method	TBLASTX:Maize
Start	20	End	1094
GI	none	Score	102
Exons	20..172, 22..171, 313..435, 314..430, 624..650, 644..760, 655..771, 839..892, 850..891, 969..1094, 970..1062		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o2.tc	Method	TBLASTX:Cress
Start	37	End	1175
GI	none	Score	79
Exons	37..195, 44..193, 289..492, 652..780, 673..780, 844..891, 857..892, 969..1175		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o1.ts	Method	TBLASTX:Soybean
Start	3242	End	3759
GI	none	Score	131
Exons	3242..3331, 3243..3332, 3433..3570, 3444..3569, 3464..3592, 3514..3570, 3516..3629, 3565..3759, 3567..3758		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o1.tc	Method	TBLASTX:Cress
Start	3246	End	3759
GI	none	Score	71
Exons	3246..3329, 3453..3569, 3454..3570, 3565..3759, 3567..3758		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o1.tm	Method	TBLASTX:Maize
Start	3579	End	3759
GI	none	Score	266
Exons	3579..3758, 3580..3759		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o4.gs	Method	GENSCAN
Start	13399	End	13987
GI	none	Score	.78
Exons	13399..13511, 13622..13828, 13858..13987		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o2.ts	Method	TBLASTX:Soybean
Start	13597	End	14008
GI	none	Score	60
Exons	13597..13644, 13787..14008, 13795..14007		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o2.tm	Method	TBLASTX:Maize
Start	13783	End	14008
GI	none	Score	252
Exons	13783..14007, 13796..14008		

Seq. No.	52094	Seq. ID	OJ991116_09.0414.C10
Gene No.	110177	Strand	-
Start	13399	End	14008
Name	OJ991116_09.0414.C10.o3.tc	Method	TBLASTX:Cress
Start	13787	End	14008
GI	none	Score	190
Exons	13787..14008, 13792..14007		

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o1.np	Method	AAT/NAP
Start	1	End	1384
GI	6850341	Score	940
Exons	1..1384		
GI Descrip.	(AC022354) putative peptide transporter [Arabidopsis thaliana]		

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	1312
GI	none	Score	97
Exons	2..106, 95..361, 493..633, 494..634, 680..832, 737..832,		

934..1080, 935..1156, 1148..1312, 1171..1290

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o2.ts	Method	TBLASTX:Soybean
Start	2	End	382
GI	none	Score	98
Exons	2..85, 10..60, 130..381, 131..382		

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o1.tc	Method	TBLASTX:Cress
Start	5	End	1207
GI	none	Score	92
Exons	5..106, 92..382, 494..631, 529..609, 644..832, 929..1159, 1160..1207		

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o1.gs	Method	GENSCAN
Start	23	End	1366
GI	none	Score	1
Exons	23..1366		

Seq. No.	52095	Seq. ID	OJ991116_09.0414.C11
Gene No.	110178	Strand	+
Start	1	End	1384
Name	OJ991116_09.0414.C11.o1.ts	Method	TBLASTX:Soybean
Start	434	End	1318
GI	none	Score	49
Exons	434..481, 469..627, 509..628, 686..832, 944..1159, 949..1092, 1115..1318		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110179	Strand	+
Start	1	End	1725
Name	OJ991116_09.0414.C12.o1.np	Method	AAT/NAP
Start	1	End	1725
GI	6850341	Score	943
Exons	1..70, 156..712, 812..1725		
GI Descrip.	(AC022354) putative peptide transporter [Arabidopsis thaliana]		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110179	Strand	+
Start	1	End	1725
Name	OJ991116_09.0414.C12.o1.gs	Method	GENSCAN
Start	17	End	1669
GI	none	Score	.8
Exons	17..70, 156..712, 770..1238, 1259..1669		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110180	Strand	+
Start	12428	End	17626
Name	OJ991116_09.0414.C12.o3.gs	Method	GENSCAN

Start	12428	End	17619
GI	none	Score	.88
Exons	12428..12834, 13202..13309, 13958..14135, 15018..15164, 15817..15914, 15998..16092, 16884..17312, 17420..17619		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110180	Strand	+
Start	12428	End	17626
Name	OJ991116_09.0414.C12.o3.np	Method	AAT/NAP
Start	12437	End	17626
GI	7485749	Score	938
Exons	12437..12645, 12746..12860, 13205..13309, 13958..14135, 14808..15164, 15817..15914, 15998..16092, 16911..17417, 17473..17626		
GI Descrip.	hypothetical protein F19B15.30 - Arabidopsis thaliana gi\|4972046\|emb\|CAB43914.1\| (AL078470) putative transcription factor [Arabidopsis thaliana] gi\|7269798\|emb\|CAB79658.1\| (AL161574) putative transcription factor [Arabidopsis thaliana]		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o4.ts	Method	TBLASTX:Soybean
Start	2	End	518
GI	none	Score	47
Exons	2..58, 156..212, 230..349, 231..350, 393..503, 393..518		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o1.tc	Method	TBLASTX:Cress
Start	219	End	1606
GI	none	Score	60
Exons	219..380, 393..503, 903..1205, 1292..1504, 1508..1606		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o1.ts	Method	TBLASTX:Soybean
Start	801	End	1609
GI	none	Score	52
Exons	801..875, 885..1037, 905..961, 1050..1208, 1055..1201, 1279..1602, 1280..1609		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o2.tm	Method	TBLASTX:Maize
Start	804	End	1187
GI	none	Score	66
Exons	804..854, 807..869, 888..1187, 888..1067, 902..1186		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o4.tm	Method	TBLASTX:Maize
Start	1283	End	1609

GI	none	Score	225
Exons	1283..1492, 1301..1468, 1372..1476, 1474..1593, 1475..1594, 1544..1609		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o1.tw	Method	TBLASTX:Wheat
Start	1295	End	1606
GI	none	Score	225
Exons	1295..1504, 1300..1587, 1301..1606		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o3.tm	Method	TBLASTX:Maize
Start	2063	End	4963
GI	none	Score	73
Exons	2063..2113, 2069..2113, 2073..2114, 2179..2235, 2180..2242, 2180..2236, 2181..2267, 2565..2750, 2565..2747, 2569..2748, 2989..3060, 2993..3061, 2993..3061, 3173..3265, 3175..3270, 3184..3270, 3782..3889, 3783..3887, 3784..3888, 3977..4015, 3977..4015, 4009..4077, 4017..4055, 4022..4057, 4127..4237, 4146..4238, 4146..4244, 4147..4239, 4864..4962, 4870..4962, 4874..4963		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o2.ts	Method	TBLASTX:Soybean
Start	2069	End	7281
GI	none	Score	38
Exons	2069..2113, 2179..2235, 2180..2236, 2565..2747, 2664..2750, 2989..3060, 2999..3061, 3173..3265, 3175..3270, 3782..3871, 3783..3842, 3974..4054, 3975..4055, 4146..4244, 4147..4239, 4870..4971, 4889..4972, 5077..5187, 5078..5188, 5100..5189, 5118..5189, 5423..5479, 5622..5696, 5856..5975, 5864..5968, 6214..6309, 6734..6916, 6760..6915, 7117..7260, 7129..7281, 7151..7264		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o2.gs	Method	GENSCAN
Start	2074	End	9916
GI	none	Score	.78
Exons	2074..2112, 2182..2235, 2568..2747, 2989..3062, 3177..3267, 4940..5044, 5867..5955, 6108..6309, 6760..6963, 7096..7292, 8012..8098, 8141..8321, 8403..8633, 9469..9533, 9628..9670, 9712..9786, 9887..9916		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o3.tw	Method	TBLASTX:Wheat
Start	2084	End	2696
GI	none	Score	45

Exons	2084..2113, 2109..2246, 2164..2238, 2180..2242, 2181..2249, 2559..2693, 2565..2696		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o2.np	Method	AAT/NAP
Start	2137	End	6830
GI	7503143	Score	154
Exons	2137..2235, 2509..2787, 3146..3267, 3785..3868, 3984..4054, 4146..4238, 5454..5683, 5851..5955, 6624..6830		
GI Descrip.	hypothetical protein F41C3.3 - Caenorhabditis elegans gi\|746539\|gb\|AAC46810.1\| (U23521) similar to long-chain-fatty-acid--coA ligase and other enzymes which act via an ATP-dependent covalent binding of AMP to their substrate [Caenorhabditis elegans]		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o3.tc	Method	TBLASTX:Cress
Start	3975	End	5196
GI	none	Score	90
Exons	3975..4052, 3977..4054, 3978..4055, 4129..4254, 4146..4229, 4147..4239, 4852..4992, 4892..4972, 5077..5196, 5078..5188, 5080..5196		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o5.tm	Method	TBLASTX:Maize
Start	6091	End	7312
GI	none	Score	162
Exons	6091..6309, 6103..6309, 6104..6319, 6760..6963, 6762..6962, 7108..7284, 7109..7312		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o1.gp	Method	AAT/GAP
Start	6749	End	8220
GI	none	Score	842
Exons	6749..6963, 7117..7292, 8141..8220		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110181	Strand	-
Start	2074	End	9916
Name	OJ991116_09.0414.C12.o4.tc	Method	TBLASTX:Cress
Start	6758	End	7269
GI	none	Score	113
Exons	6758..6919, 6760..6942, 7141..7269		
Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110182	Strand	
Start	13223	End	16984
Name	OJ991116_09.0414.C12.o8.tm	Method	TBLASTX:Maize
Start	13223	End	14091

GI	none	Score	91
Exons	13223..13327, 13227..13313, 13957..14085, 13958..14086, 13959..14090, 13963..14091		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110182	Strand	
Start	13223	End	16984
Name	OJ991116_09.0414.C12.o2.tc	Method	TBLASTX:Cress
Start	13958	End	14918
GI	none	Score	267
Exons	13958..14137, 13959..14129, 13963..14130, 14805..14879, 14807..14881, 14847..14918		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110182	Strand	
Start	13223	End	16984
Name	OJ991116_09.0414.C12.o1.tm	Method	TBLASTX:Maize
Start	14091	End	16984
GI	none	Score	71
Exons	14091..14138, 14808..15164, 14809..15018, 14819..15163, 15067..15165, 15845..15901, 15846..15908, 15847..15915, 15961..16086, 15977..16066, 15984..16094, 16011..16094, 16895..16984, 16910..16981		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110182	Strand	
Start	13223	End	16984
Name	OJ991116_09.0414.C12.o3.ts	Method	TBLASTX:Soybean
Start	14861	End	15008
GI	none	Score	240
Exons	14861..15007, 14862..15008		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110182	Strand	
Start	13223	End	16984
Name	OJ991116_09.0414.C12.o2.tw	Method	TBLASTX:Wheat
Start	14982	End	16067
GI	none	Score	142
Exons	14982..15164, 14990..15169, 14991..15170, 15797..15913, 15800..15916, 15814..15915, 15816..15935, 15817..15981, 15992..16066, 15993..16067, 15993..16067		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110183	Strand	
Start	17007	End	17250
Name	OJ991116_09.0414.C12.o7.tm	Method	TBLASTX:Maize
Start	17007	End	17250
GI	none	Score	169
Exons	17007..17159, 17012..17158, 17022..17159, 17057..17176, 17124..17249, 17143..17250, 17143..17247, 17145..17249		

Seq. No.	52096	Seq. ID	OJ991116_09.0414.C12
Gene No.	110184	Strand	
Start	17280	End	17826
Name	OJ991116_09.0414.C12.o6.tm	Method	TBLASTX:Maize
Start	17280	End	17826
GI	none	Score	48

Exons	17280..17312, 17281..17313, 17413..17505, 17417..17509, 17418..17522, 17504..17629, 17505..17597, 17644..17676, 17647..17673, 17665..17775, 17670..17771, 17681..17773, 17771..17803, 17773..17826		
Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110185	Strand	+
Start	1545	End	1919
Name	OJ991116_09.0414.C13.o1.gs	Method	GENSCAN
Start	1545	End	1919
GI	none	Score	.44
Exons	1545..1919		
Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110186	Strand	+
Start	3062	End	9813
Name	OJ991116_09.0414.C13.o2.gs	Method	GENSCAN
Start	3062	End	9813
GI	none	Score	.85
Exons	3062..3238, 3292..3374, 3483..3630, 4359..4500, 5027..5106, 5294..5509, 6334..6471, 6578..6843, 7088..7205, 7311..8027, 8117..8218, 8303..8515, 8601..8775, 8861..9150, 9231..9317, 9340..9813		
Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110186	Strand	+
Start	3062	End	9813
Name	OJ991116_09.0414.C13.o1.np	Method	AAT/NAP
Start	6391	End	9798
GI	2506525	Score	1286
Exons	6391..6471, 6578..6843, 7088..7205, 7311..7431, 7480..7615, 7739..8027, 8117..8218, 8303..8515, 8601..8775, 8861..9150, 9231..9305, 9400..9798		
GI Descrip.	HOMEOBOX PROTEIN GLABRA2 (HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-10) (HD-ZIP PROTEIN ATHB-10) gi\|2129614\|pir\|\|S71449 homeotic protein GL2 - Arabidopsis thaliana gi\|1695244 (L32873) homeodomain protein [Arabidopsis thaliana] gi\|6453863\|gb\|AAF09047.1\|AC011717_14 (AC011717) homeobox protein (GLABRA2) [Arabidopsis thaliana]		
Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110187	Strand	-
Start	1	End	1708
Name	OJ991116_09.0414.C13.o1.gp	Method	AAT/GAP
Start	1	End	1708
GI	1656_1.R1084	Score	1232
Exons	1..207, 644..681, 763..825, 916..1002, 1286..1380, 1510..1708		
GI Descrip.	'586238/sp\|P37398\|VIV_ORYSA 2.0e-51 VIVIPAROUS PROTEIN HOMOLOG >gi_632294_pir__S48899 VP1 protein (OSVP1) - Oryza sativa >gi_391885_dbj_BAA04066_ (D16640) VP1 protein (OSVP1) [Oryza sativa]'		
Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110188	Strand	-
Start	10141	End	12551
Name	OJ991116_09.0414.C13.o2.tm	Method	TBLASTX:Maize
Start	3119	End	3573

GI	none	Score	50
Exons	3119..3172, 3161..3190, 3289..3402, 3291..3371, 3454..3546, 3480..3560, 3484..3573, 3485..3568		

Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110188	Strand	-
Start	10141	End	12551
Name	OJ991116_09.0414.C13.o1.tc	Method	TBLASTX:Cress
Start	7080	End	9311
GI	none	Score	149
Exons	7080..7220, 7770..7853, 7908..8027, 8117..8224, 8303..8419, 8417..8518, 8598..8780, 8601..8768, 8651..8791, 8863..8961, 9027..9134, 9037..9150, 9231..9311		

Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110188	Strand	-
Start	10141	End	12551
Name	OJ991116_09.0414.C13.o1.ts	Method	TBLASTX:Soybean
Start	8150	End	9302
GI	none	Score	47
Exons	8150..8221, 8302..8418, 8303..8518, 8601..8768, 8877..8969, 8878..8967, 9027..9134, 9037..9150, 9231..9302		

Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110188	Strand	-
Start	10141	End	12551
Name	OJ991116_09.0414.C13.o1.tm	Method	TBLASTX:Maize
Start	8598	End	9677
GI	none	Score	148
Exons	8598..8618, 8601..8768, 8672..8791, 8863..8961, 8863..8928, 9027..9047, 9037..9150, 9231..9311, 9444..9566, 9630..9677		

Seq. No.	52097	Seq. ID	OJ991116_09.0414.C13
Gene No.	110188	Strand	-
Start	10141	End	12551
Name	OJ991116_09.0414.C13.o3.gs	Method	GENSCAN
Start	10141	End	12551
GI	none	Score	.96
Exons	10141..10289, 12392..12551		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110189	Strand	+
Start	113	End	4678
Name	OJ991116_09.0414.C14.o1.gs	Method	GENSCAN
Start	113	End	3457
GI	none	Score	.91
Exons	113..331, 461..532, 635..696, 1366..1449, 1897..1943, 2051..2214, 2424..2561, 3062..3183, 3313..3457		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110189	Strand	+
Start	113	End	4678
Name	OJ991116_09.0414.C14.o1.gp	Method	AAT/GAP
Start	200	End	4678
GI	396_1.R1084	Score	2858
Exons	200..331, 461..532, 635..696, 1366..1449, 1630..1729, 1823..1943, 2051..2214, 2424..2561, 3062..3183, 3313..3407,		

4026..4146, 4337..4678
GI Descrip. '584706/sp|P37833|AATC_ORYSA 0.0e+00 ASPARTATE AMINOTRANSFERASE, CYTOPLASMIC (TRANSAMINASE A) >gi_2130066_pir__JC5124 aspartate transaminase (EC 2.6.1.1), cytoplasmic - rice >gi_287298_dbj_BAA03504_ (D14673) aspartate aminotransferase [Oryza sativa]'

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110189	Strand	+
Start	113	End	4678
Name	OJ991116_09.0414.C14.o1.np	Method	AAT/NAP
Start	272	End	4418
GI	584706	Score	1762
Exons	272..331, 461..532, 635..696, 1366..1449, 1630..1729, 1823..1943, 2051..2214, 2424..2561, 3062..3183, 3313..3407, 4026..4146, 4337..4418		
GI Descrip.	ASPARTATE AMINOTRANSFERASE, CYTOPLASMIC (TRANSAMINASE A) gi\|2130066\|pir\|\|JC5124 aspartate transaminase (EC 2.6.1.1), cytoplasmic - rice gi\|287298\|dbj\|BAA03504\| (D14673) aspartate aminotransferase [Oryza sativa]		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110190	Strand	+
Start	8315	End	11336
Name	OJ991116_09.0414.C14.o2.np	Method	AAT/NAP
Start	8315	End	11336
GI	7452431	Score	2601
Exons	8315..8438, 8562..11336		
GI Descrip.	hypothetical protein F16G20.140 - Arabidopsis thaliana gi\|3451069\|emb\|CAA20465.1\| (AL031326) hypothetical protein [Arabidopsis thaliana] gi\|7269192\|emb\|CAB79299.1\| (AL161559) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110190	Strand	+
Start	8315	End	11336
Name	OJ991116_09.0414.C14.o4.gs	Method	GENSCAN
Start	8315	End	11323
GI	none	Score	1
Exons	8315..11323		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110191	Strand	-
Start	4311	End	4786
Name	OJ991116_09.0414.C14.o2.gs	Method	GENSCAN
Start	4311	End	4786
GI	none	Score	.9
Exons	4311..4412, 4712..4786		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110192	Strand	-
Start	6363	End	7561
Name	OJ991116_09.0414.C14.o1.tw	Method	TBLASTX:Wheat
Start	71	End	1731
GI	none	Score	34
Exons	71..118, 72..119, 101..187, 105..182, 107..187, 153..191, 154..222, 256..276, 256..276, 262..336, 266..334, 461..532,		

461..538, 490..537, 632..742, 635..694, 1367..1447, 1367..1447, 1625..1729, 1627..1731, 1627..1728

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110192	Strand	-
Start	6363	End	7561
Name	OJ991116_09.0414.C14.o1.ts	Method	TBLASTX:Soybean
Start	137	End	4430
GI	none	Score	61
Exons	137..190, 254..334, 259..336, 460..534, 461..532, 634..687, 635..694, 1367..1447, 1376..1447, 1625..1729, 1627..1725, 1808..1945, 1819..1944, 2049..2213, 2050..2214, 2404..2544, 2420..2563, 2421..2564, 3062..3184, 3074..3187, 3317..3409, 3320..3394, 4024..4146, 4027..4146, 4028..4156, 4031..4147, 4337..4408, 4338..4430		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110192	Strand	-
Start	6363	End	7561
Name	OJ991116_09.0414.C14.o1.tc	Method	TBLASTX:Cress
Start	146	End	4441
GI	none	Score	45
Exons	146..184, 283..336, 284..334, 460..534, 461..532, 634..690, 635..694, 1364..1447, 1625..1729, 1627..1725, 1808..1945, 1825..1944, 2049..2213, 2050..2214, 2401..2541, 2416..2559, 2420..2563, 2421..2564, 2421..2567, 3062..3184, 3115..3186, 3317..3409, 3318..3407, 3319..3411, 4012..4143, 4017..4148, 4027..4146, 4028..4156, 4337..4441, 4338..4412		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110192	Strand	-
Start	6363	End	7561
Name	OJ991116_09.0414.C14.o4.tm	Method	TBLASTX:Maize
Start	253	End	4593
GI	none	Score	38
Exons	253..294, 280..336, 281..334, 461..532, 461..538, 490..537, 632..697, 634..690, 635..697, 1365..1448, 1367..1447, 1597..1725, 1604..1726, 1625..1729, 1627..1728, 1816..1923, 1818..1943, 1820..1945, 1820..1945, 2027..2197, 2027..2212, 2049..2213, 2050..2214, 2420..2560, 2420..2563, 2421..2564, 2421..2567, 3062..3181, 3066..3182, 3070..3183, 3310..3411, 3311..3409, 3318..3428, 4024..4146, 4027..4146, 4028..4156, 4337..4420, 4337..4420, 4338..4421, 4464..4517, 4464..4514, 4558..4593, 4560..4589		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110192	Strand	-
Start	6363	End	7561
Name	OJ991116_09.0414.C14.o3.gs	Method	GENSCAN
Start	6363	End	7561
GI	none	Score	.59
Exons	6363..6493, 7138..7317, 7375..7561		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110193	Strand	
Start	8285	End	8457
Name	OJ991116_09.0414.C14.o2.tw	Method	TBLASTX:Wheat

Start	8285	End	8457
GI	none	Score	138
Exons	8285..8449, 8314..8457, 8317..8445		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110194	Strand	
Start	8391	End	8701
Name	OJ991116_09.0414.C14.o5.tm	Method	TBLASTX:Maize
Start	8391	End	8701
GI	none	Score	134
Exons	8391..8519, 8392..8700, 8392..8700, 8420..8701		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110195	Strand	
Start	8615	End	9310
Name	OJ991116_09.0414.C14.o2.tc	Method	TBLASTX:Cress
Start	8615	End	9310
GI	none	Score	35
Exons	8615..8680, 8760..8939, 8809..9006, 8813..9121, 8816..9094, 9046..9114, 9196..9285, 9197..9310		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110196	Strand	
Start	9265	End	9732
Name	OJ991116_09.0414.C14.o3.tm	Method	TBLASTX:Maize
Start	9265	End	9732
GI	none	Score	580
Exons	9265..9732, 9269..9730, 9270..9731, 9382..9732		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110197	Strand	
Start	9959	End	10440
Name	OJ991116_09.0414.C14.o2.tm	Method	TBLASTX:Maize
Start	9959	End	10440
GI	none	Score	605
Exons	9959..10357, 9959..10348, 9961..10362, 9961..10356, 10364..10438, 10366..10440, 10367..10438, 10398..10439		

Seq. No.	52098	Seq. ID	OJ991116_09.0414.C14
Gene No.	110198	Strand	
Start	10571	End	11419
Name	OJ991116_09.0414.C14.o1.tm	Method	TBLASTX:Maize
Start	10571	End	11419
GI	none	Score	1137
Exons	10571..11359, 10572..10598, 10598..11344, 10683..11357, 11346..11414, 11347..11415, 11348..11419		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110199	Strand	+
Start	1	End	707
Name	OJ991116_09.0414.C15.o1.np	Method	AAT/NAP
Start	1	End	707
GI	584706	Score	108
Exons	1..93, 506..707		
GI Descrip.	ASPARTATE AMINOTRANSFERASE, CYTOPLASMIC (TRANSAMINASE A) gi\|2130066\|pir\|\|JC5124 aspartate transaminase (EC 2.6.1.1), cytoplasmic - rice gi\|287298\|dbj\|BAA03504\| (D14673) aspartate		

aminotransferase [Oryza sativa]

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110200	Strand	+
Start	1925	End	2326
Name	OJ991116_09.0414.C15.o1.gp	Method	AAT/GAP
Start	1925	End	2326
GI	46306_1.R1084	Score	677
Exons	1925..2326		
GI Descrip.	'435456/dbj\|D25322\|PNIAATA 6.0e-16 Proso millet gene for aspartate aminotransferase, complete cds'		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o1.gs	Method	GENSCAN
Start	2141	End	4507
GI	none	Score	.89
Exons	2141..2323, 2365..2553, 2655..2975, 3065..3331, 3427..3501, 3619..3773, 3867..3983, 4074..4259, 4435..4507		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o2.np	Method	AAT/NAP
Start	2187	End	5304
GI	7485668	Score	1021
Exons	2187..2553, 2655..2975, 3065..3331, 3427..3501, 3619..3773, 3867..3986, 5268..5304		
GI Descrip.	hypothetical protein F17N18.130 - Arabidopsis thaliana gi\|4753658\|emb\|CAB41934.1\| (AL049751) putative protein [Arabidopsis thaliana] gi\|7268026\|emb\|CAB78366.1\| (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o3.ts	Method	TBLASTX:Soybean
Start	2643	End	2796
GI	none	Score	128
Exons	2643..2795, 2644..2796		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o1.tm	Method	TBLASTX:Maize
Start	2653	End	3148
GI	none	Score	429
Exons	2653..2976, 2655..2978, 2778..2996, 3050..3139, 3065..3148		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o1.ts	Method	TBLASTX:Soybean
Start	2797	End	3256
GI	none	Score	48
Exons	2797..2976, 2805..2978, 3042..3113, 3065..3256		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o1.tc	Method	TBLASTX:Cress
Start	2844	End	3253
GI	none	Score	192
Exons	2844..2978, 3065..3253		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o2.tm	Method	TBLASTX:Maize
Start	3149	End	3753
GI	none	Score	42
Exons	3149..3220, 3186..3221, 3192..3260, 3194..3262, 3224..3262, 3233..3331, 3254..3331, 3261..3332, 3425..3502, 3427..3504, 3614..3751, 3616..3753, 3619..3753		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o2.ts	Method	TBLASTX:Soybean
Start	3275	End	3996
GI	none	Score	106
Exons	3275..3325, 3638..3775, 3646..3768, 3859..3996		

Seq. No.	52099	Seq. ID	OJ991116_09.0414.C15
Gene No.	110201	Strand	-
Start	2141	End	5304
Name	OJ991116_09.0414.C15.o2.gp	Method	AAT/GAP
Start	3733	End	4506
GI	27126_1.R1084	Score	796
Exons	3733..3773, 3867..3983, 4074..4316, 4435..4506		
GI Descrip.	'4753658/emb\|CAB41934.1\| 9.0e-16 (AL049751) putative protein [Arabidopsis thaliana]'		

Seq. No.	52100	Seq. ID	OJ991116_09.0414.C16
Gene No.	110202	Strand	-
Start	1546	End	1633
Name	OJ991116_09.0414.C16.o1.gs	Method	GENSCAN
Start	1546	End	1633
GI	none	Score	.67
Exons	1546..1633		

Seq. No.	52101	Seq. ID	OJ991116_09.0414.C17
Gene No.	110203	Strand	+
Start	522	End	921
Name	OJ991116_09.0414.C17.o1.gp	Method	AAT/GAP
Start	522	End	921
GI	none	Score	800
Exons	522..921		

Seq. No.	52101	Seq. ID	OJ991116_09.0414.C17
Gene No.	110204	Strand	-
Start	221	End	1125
Name	OJ991116_09.0414.C17.o1.np	Method	AAT/NAP

Start	221	End	1125
GI	5882745	Score	149
Exons	221..301, 907..1125		
GI Descrip.	(AC008263) F25A4.24 [Arabidopsis thaliana]		

Seq. No.	52101	Seq. ID	OJ991116_09.0414.C17
Gene No.	110204	Strand	-
Start	221	End	1125
Name	OJ991116_09.0414.C17.o1.gs	Method	GENSCAN
Start	841	End	1059
GI	none	Score	1
Exons	841..1059		

Seq. No.	52101	Seq. ID	OJ991116_09.0414.C17
Gene No.	110204	Strand	-
Start	221	End	1125
Name	OJ991116_09.0414.C17.o1.tm	Method	TBLASTX:Maize
Start	941	End	1112
GI	none	Score	199
Exons	941..1093, 970..1095, 1083..1112		

Seq. No.	52102	Seq. ID	OJ991116_09.0414.C25
Gene No.	110205	Strand	-
Start	679	End	1595
Name	OJ991116_09.0414.C25.o1.gs	Method	GENSCAN
Start	679	End	1595
GI	none	Score	.98
Exons	679..798, 1185..1595		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.gs	Method	GENSCAN
Start	220	End	972
GI	none	Score	.58
Exons	220..343, 797..972		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.tm	Method	TBLASTX:Maize
Start	631	End	973
GI	none	Score	99
Exons	631..687, 632..709, 632..697, 784..972, 785..973, 795..968		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.tc	Method	TBLASTX:Cress
Start	632	End	972
GI	none	Score	81
Exons	632..709, 779..874, 784..972, 795..971		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.ts	Method	TBLASTX:Soybean

Start	632	End	981
GI	none	Score	73
Exons	632..709, 632..697, 784..972, 795..977, 799..981, 834..977		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.np	Method	AAT/NAP
Start	633	End	1050
GI	6437556	Score	237
Exons	633..692, 797..1050		
GI Descrip.	(AC011623) unknown protein [Arabidopsis thaliana]		

Seq. No.	52103	Seq. ID	OJ991116_09.0414.C27
Gene No.	110206	Strand	+
Start	220	End	1050
Name	OJ991116_09.0414.C27.o1.gp	Method	AAT/GAP
Start	635	End	879
GI	LIB3434-025-P1-K1-C2	Score	243
Exons	635..692, 797..879		
GI Descrip.	'2435511 4.0e-29 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]'		

Seq. No.	52104	Seq. ID	OJ991116_09.0414.C29
Gene No.	110207	Strand	+
Start	377	End	1128
Name	OJ991116_09.0414.C29.o1.gs	Method	GENSCAN
Start	377	End	1128
GI	none	Score	.51
Exons	377..522, 996..1128		

Seq. No.	52104	Seq. ID	OJ991116_09.0414.C29
Gene No.	110207	Strand	+
Start	377	End	1128
Name	OJ991116_09.0414.C29.o1.np	Method	AAT/NAP
Start	751	End	850
GI	5922619	Score	94
Exons	751..850		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016852\|dbj\|BAA85195.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52105	Seq. ID	OJ991206_04.0421.C1
Gene No.	110208	Strand	+
Start	49	End	380
Name	OJ991206_04.0421.C1.o1.gs	Method	GENSCAN
Start	49	End	380
GI	none	Score	.55
Exons	49..380		

Seq. No.	52105	Seq. ID	OJ991206_04.0421.C1
Gene No.	110209	Strand	-
Start	1	End	2943
Name	OJ991206_04.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	2943
GI	6069646	Score	286
Exons	1..285, 2914..2943		

GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110210	Strand	+
Start	6894	End	7183
Name	OJ991206_04.0421.C2.o2.np	Method	AAT/NAP
Start	6894	End	7147
GI	6633826	Score	102
Exons	6894..7020, 7110..7147		
GI Descrip.	(AC009519) F1N19.22 [Arabidopsis thaliana]		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110210	Strand	+
Start	6894	End	7183
Name	OJ991206_04.0421.C2.o3.gp	Method	AAT/GAP
Start	6947	End	7183
GI	none	Score	215
Exons	6947..7005, 7107..7183		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110211	Strand	-
Start	577	End	663
Name	OJ991206_04.0421.C2.o1.gs	Method	GENSCAN
Start	577	End	663
GI	none	Score	.69
Exons	577..663		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	15	End	3526
GI	none	Score	66
Exons	15..92, 2065..2130, 2065..2166, 2617..2703, 2649..2705, 2827..2919, 2997..3119, 3208..3297, 3208..3294, 3401..3520, 3402..3521, 3404..3526		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o1.gp	Method	AAT/GAP
Start	1463	End	2701
GI	uC-osflcyp053f03b1	Score	922
Exons	1463..1666, 1773..1844, 1919..2009, 2083..2127, 2197..2290, 2655..2701		
GI Descrip.	'2073375/dbj\|BAA19856\| 4.0e-51 (D85317) farnesyl pyrophosphate synthase [Oryza sativa] >gi_4063829_dbj_BAA36276_ (AB021747) farnesyl diphosphate synthase [Oryza sativa]'		
Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o1.tc	Method	TBLASTX:Cress

Start	1538	End	3521
GI	none	Score	62
Exons	1538..1669, 1773..1841, 1926..1979, 1971..2012, 2065..2130, 2065..2166, 2649..2705, 2827..2919, 2989..3117, 2997..3119, 3208..3276, 3208..3294, 3401..3520, 3402..3521		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	1538	End	4026
GI	none	Score	64
Exons	1538..1669, 1971..2012, 2065..2166, 2649..2705, 2827..2919, 2831..2899, 2997..3119, 2998..3120, 2998..3126, 3208..3294, 3401..3520, 3402..3521, 3919..4026		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o1.np	Method	AAT/NAP
Start	1541	End	5828
GI	4680193	Score	607
Exons	1541..1666, 1773..1844, 1919..2009, 2083..2127, 2197..2287, 2651..2706, 2822..2910, 3000..3116, 3211..3297, 3404..3590, 3887..4101, 5666..5828		
GI Descrip.	(AF111710) putative farnesyl pyrophosphate synthase [Oryza sativa subsp. indica]		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o2.gp	Method	AAT/GAP
Start	3221	End	4231
GI	uC-osflm202109e07b1	Score	982
Exons	3221..3297, 3404..3519, 3738..3762, 3913..4231		
GI Descrip.	'1922251/emb\|CAA72793\| 5.0e-37 (Y12072) farnesyl pyrophosphate synthase [Gossypium arboreum]'		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o3.np	Method	AAT/NAP
Start	5547	End	7622
GI	7485841	Score	95
Exons	5547..5666, 7344..7622		
GI Descrip.	hypothetical protein F20D10.10 - Arabidopsis thaliana gi\|4467095\|emb\|CAB37529.1\| (AL035538) putative protein [Arabidopsis thaliana] gi\|7270772\|emb\|CAB80454.1\| (AL161592) putative protein [Arabidopsis thaliana]		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	6885	End	7183
GI	none	Score	145
Exons	6885..6998, 6899..7003, 6899..7006, 7100..7183, 7106..7183		

Seq. No.	52106	Seq. ID	OJ991206_04.0421.C2
Gene No.	110212	Strand	-
Start	1463	End	7646
Name	OJ991206_04.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	7344	End	7646
GI	none	Score	70
Exons	7344..7388, 7345..7389, 7387..7410, 7388..7492, 7406..7447, 7500..7646, 7506..7646		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110213	Strand	+
Start	5295	End	8694
Name	OJ991206_04.0421.C3.o2.gp	Method	AAT/GAP
Start	5173	End	5515
GI	4715634	Score	666
Exons	5173..5515		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110213	Strand	+
Start	5295	End	8694
Name	OJ991206_04.0421.C3.o3.gs	Method	GENSCAN
Start	5295	End	8336
GI	none	Score	.74
Exons	5295..5577, 5643..5870, 5976..6595, 8079..8336		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110213	Strand	+
Start	5295	End	8694
Name	OJ991206_04.0421.C3.o3.gp	Method	AAT/GAP
Start	5770	End	6460
GI	none	Score	1036
Exons	5770..5870, 5976..6460		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110213	Strand	+
Start	5295	End	8694
Name	OJ991206_04.0421.C3.o4.gp	Method	AAT/GAP
Start	6478	End	8694
GI	none	Score	1353
Exons	6478..6595, 8079..8694		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110214	Strand	+
Start	13283	End	13775
Name	OJ991206_04.0421.C3.o5.gs	Method	GENSCAN
Start	13283	End	13775
GI	none	Score	.83
Exons	13283..13292, 13702..13775		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110215	Strand	+
Start	15085	End	22103
Name	OJ991206_04.0421.C3.o2.np	Method	AAT/NAP
Start	15085	End	20206
GI	4680179	Score	4556
Exons	15085..15158, 15701..16686, 16789..20206		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110215	Strand	+
Start	15085	End	22103
Name	OJ991206_04.0421.C3.o3.np	Method	AAT/NAP
Start	18400	End	22103
GI	5777623	Score	668
Exons	18400..18562, 20823..21004, 21253..21393, 21574..22103		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110216	Strand	-
Start	1	End	3263
Name	OJ991206_04.0421.C3.o1.gp	Method	AAT/GAP
Start	1	End	900
GI	2158_1.R1084	Score	639
Exons	1..165, 357..428, 547..636, 716..760, 835..900		
GI Descrip.	'4680193/gb\|AAD27558.1\|AF111710_4 1.0e-32 (AF111710) putative farnesyl pyrophosphate synthase [Oryza sativa subsp. indica]'		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110216	Strand	-
Start	1	End	3263
Name	OJ991206_04.0421.C3.o1.gs	Method	GENSCAN
Start	37	End	3263
GI	none	Score	.89
Exons	37..165, 357..428, 547..636, 716..760, 835..930, 1047..1098, 1186..1274, 1368..1484, 1590..1676, 1716..1903, 1996..2020, 2958..3263		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110216	Strand	-
Start	1	End	3263
Name	OJ991206_04.0421.C3.o1.np	Method	AAT/NAP
Start	40	End	3074
GI	1346028	Score	794
Exons	40..165, 357..428, 547..636, 716..760, 835..930, 1047..1098, 1186..1274, 1368..1484, 1590..1676, 1788..1903, 1996..2020, 2958..3074		
GI Descrip.	FARNESYL PYROPHOSPHATE SYNTHETASE 1 (FPP SYNTHETASE) (FPS) (FARNESYL DIPHOSPHATE SYNTHETASE) [INCLUDES: DIMETHYLALLYLTRANSFERASE ; GERANYLTRANSTRANSFERASE] gi\|2129849\|pir\|\|S66470 farnesyl pyrophosphate synthase 1 - white lupine gi\|558923 (U15777) farnesyl pyrophosphate synthase [Lupinus albus]		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110217	Strand	-
Start	4443	End	4802
Name	OJ991206_04.0421.C3.o2.gs	Method	GENSCAN
Start	4443	End	4802
GI	none	Score	.99
Exons	4443..4802		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110218	Strand	-

Start	9399	End	10556
Name	OJ991206_04.0421.C3.o4.gs	Method	GENSCAN
Start	9399	End	10556
GI	none	Score	.55
Exons	9399..10556		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	28	End	2023
GI	none	Score	80
Exons	28..165, 37..168, 357..428, 547..639, 590..634, 707..763, 717..764, 718..765, 833..928, 835..930, 835..930, 1026..1097, 1045..1095, 1191..1277, 1195..1263, 1365..1487, 1575..1676, 1578..1697, 1785..1904, 1786..1905, 1991..2023		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	37	End	2023
GI	none	Score	54
Exons	37..162, 357..431, 357..437, 547..639, 547..639, 701..763, 707..763, 835..930, 1041..1097, 1045..1101, 1191..1277, 1198..1266, 1365..1487, 1366..1488, 1575..1676, 1785..1904, 1788..1904, 1991..2023		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o2.ts	Method	TBLASTX:Soybean
Start	704	End	3062
GI	none	Score	59
Exons	704..787, 707..763, 835..930, 835..930, 1041..1097, 1045..1095, 1191..1277, 1365..1487, 1366..1485, 1575..1676, 1785..1904, 1991..2023, 2955..2996, 2994..3062		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	5298	End	8306
GI	none	Score	84
Exons	5298..5417, 5726..5869, 5975..6220, 6055..6192, 6232..6438, 6233..6598, 8148..8306		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o5.tm	Method	TBLASTX:Maize
Start	5765	End	8306
GI	none	Score	118
Exons	5765..5869, 5768..5869, 5975..6184, 6218..6460, 6232..6438, 6539..6586, 8148..8306		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3

Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o2.tc	Method	TBLASTX:Cress
Start	5978	End	8312
GI	none	Score	161
Exons	5978..6178, 6230..6529, 6232..6444, 6545..6598, 8145..8312		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o8.tw	Method	TBLASTX:Wheat
Start	15849	End	16226
GI	none	Score	267
Exons	15849..16226		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o8.tm	Method	TBLASTX:Maize
Start	16107	End	16508
GI	none	Score	239
Exons	16107..16508		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o9.tm	Method	TBLASTX:Maize
Start	16818	End	17141
GI	none	Score	207
Exons	16818..17141, 16821..17141		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o7.tw	Method	TBLASTX:Wheat
Start	16824	End	17228
GI	none	Score	167
Exons	16824..17045, 16824..16877, 16868..16978, 17054..17200, 17058..17228		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o4.tw	Method	TBLASTX:Wheat
Start	17369	End	17852
GI	none	Score	534
Exons	17369..17824, 17370..17852, 17397..17843		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o7.tm	Method	TBLASTX:Maize
Start	17381	End	17669
GI	none	Score	334
Exons	17381..17668, 17382..17669		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3

Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o4.tm	Method	TBLASTX:Maize
Start	17739	End	18239
GI	none	Score	159
Exons	17739..17918, 17904..18239, 18065..18217		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o3.ts	Method	TBLASTX:Soybean
Start	17793	End	18188
GI	none	Score	56
Exons	17793..17825, 17793..17825, 17810..17869, 17829..18188, 17829..18137, 17945..18187		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o6.tw	Method	TBLASTX:Wheat
Start	17901	End	18197
GI	none	Score	358
Exons	17901..18197, 17945..18187		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o2.tw	Method	TBLASTX:Wheat
Start	18203	End	18629
GI	none	Score	601
Exons	18203..18592, 18204..18629, 18261..18614, 18265..18627		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o5.ts	Method	TBLASTX:Soybean
Start	18213	End	18455
GI	none	Score	212
Exons	18213..18455, 18239..18337		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	18276	End	18639
GI	none	Score	467
Exons	18276..18629, 18277..18639, 18278..18544		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o3.tw	Method	TBLASTX:Wheat
Start	18672	End	19196
GI	none	Score	557
Exons	18672..19196, 18746..19192		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3

Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o3.tc	Method	TBLASTX:Cress
Start	18903	End	19220
GI	none	Score	101
Exons	18903..19076, 18924..19076, 19077..19220, 19079..19204		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o4.ts	Method	TBLASTX:Soybean
Start	18989	End	19244
GI	none	Score	300
Exons	18989..19234, 18996..19244, 19116..19244		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o6.tm	Method	TBLASTX:Maize
Start	19044	End	19334
GI	none	Score	379
Exons	19044..19334, 19055..19234, 19116..19331		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o1.tw	Method	TBLASTX:Wheat
Start	19203	End	19829
GI	none	Score	663
Exons	19203..19829, 19298..19828		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	19382	End	19979
GI	none	Score	78
Exons	19382..19534, 19383..19535, 19386..19544, 19391..19537, 19540..19635, 19541..19720, 19541..19969, 19542..19979, 19884..19979		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o5.tw	Method	TBLASTX:Wheat
Start	19830	End	20162
GI	none	Score	372
Exons	19830..20162, 19869..20141		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o10.tm	Method	TBLASTX:Maize
Start	19989	End	20147
GI	none	Score	199
Exons	19989..20147, 19994..20098		

Seq. No.	52107	Seq. ID	OJ991206_04.0421.C3
Gene No.	110219	Strand	-
Start	21597	End	22037
Name	OJ991206_04.0421.C3.o7.gs	Method	GENSCAN
Start	21597	End	22037
GI	none	Score	.99
Exons	21597..22037		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4
Gene No.	110220	Strand	+
Start	687	End	860
Name	OJ991206_04.0421.C4.o1.np	Method	AAT/NAP
Start	687	End	860
GI	6063554	Score	140
Exons	687..860		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4
Gene No.	110221	Strand	+
Start	1232	End	1506
Name	OJ991206_04.0421.C4.o1.gp	Method	AAT/GAP
Start	1232	End	1506
GI	61605_1.R1084	Score	476
Exons	1232..1506		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4
Gene No.	110222	Strand	+
Start	2655	End	4462
Name	OJ991206_04.0421.C4.o1.gs	Method	GENSCAN
Start	2655	End	4462
GI	none	Score	.88
Exons	2655..3833, 4457..4462		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4
Gene No.	110223	Strand	+
Start	5780	End	6081
Name	OJ991206_04.0421.C4.o2.gs	Method	GENSCAN
Start	5780	End	6081
GI	none	Score	.93
Exons	5780..5878, 5977..6081		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4
Gene No.	110224	Strand	+
Start	8457	End	8532
Name	OJ991206_04.0421.C4.o3.gp	Method	AAT/GAP
Start	8457	End	8532
GI	uC-osf1M202083f11b1	Score	114
Exons	8457..8532		
GI Descrip.	'4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	52108	Seq. ID	OJ991206_04.0421.C4

Gene No.	110225	Strand	-
Start	5965	End	6312
Name	OJ991206_04.0421.C4.o2.gp	Method	AAT/GAP
Start	5965	End	6312
GI	4208_1.R1084	Score	668
Exons	5965..6312		
GI Descrip.	'5441880/dbj\|BAA82378.1\| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	52109	Seq. ID	OJ991206_04.0421.C5
Gene No.	110226	Strand	-
Start	726	End	1347
Name	OJ991206_04.0421.C5.o1.gs	Method	GENSCAN
Start	726	End	1347
GI	none	Score	.53
Exons	726..829, 897..1000, 1253..1347		

Seq. No.	52110	Seq. ID	OJ991206_04.0421.C6
Gene No.	110227	Strand	+
Start	244	End	3070
Name	OJ991206_04.0421.C6.o1.gs	Method	GENSCAN
Start	244	End	3021
GI	none	Score	.45
Exons	244..938, 2912..3021		

Seq. No.	52110	Seq. ID	OJ991206_04.0421.C6
Gene No.	110227	Strand	+
Start	244	End	3070
Name	OJ991206_04.0421.C6.o1.np	Method	AAT/NAP
Start	244	End	3070
GI	6016502	Score	921
Exons	244..938, 2912..3070		
GI Descrip.	LIGULELESS1 PROTEIN gi\|1914845 (U89496) liguleless1 protein [Zea mays]		

Seq. No.	52110	Seq. ID	OJ991206_04.0421.C6
Gene No.	110228	Strand	+
Start	2998	End	3070
Name	OJ991206_04.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	706	End	2999
GI	none	Score	56
Exons	706..753, 739..903, 792..812, 829..939, 854..877, 891..959, 2901..2999, 2913..2981		

Seq. No.	52110	Seq. ID	OJ991206_04.0421.C6
Gene No.	110228	Strand	+
Start	2998	End	3070
Name	OJ991206_04.0421.C6.o1.gp	Method	AAT/GAP
Start	2998	End	3070
GI	uC-osflcyp028d01b1	Score	138
Exons	2998..3070		
GI Descrip.	'6016502/sp\|O04003\|LG1_MAIZE 4.0e-35 LIGULELESS1 PROTEIN >gi_1914845 (U89496) liguleless1 protein [Zea mays]'		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110229	Strand	+

Start	89	End	483
Name	OJ991206_04.0421.C7.o1.gp	Method	AAT/GAP
Start	89	End	432
GI	uC-osflcyp028d01b1	Score	651
Exons	89..432		
GI Descrip.	'6016502/sp\|O04003\|LG1_MAIZE 4.0e-35 LIGULELESS1 PROTEIN >gi_1914845 (U89496) liguleless1 protein [Zea mays]'		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110229	Strand	+
Start	89	End	483
Name	OJ991206_04.0421.C7.o1.np	Method	AAT/NAP
Start	89	End	483
GI	6016502	Score	376
Exons	89..249, 295..483		
GI Descrip.	LIGULELESS1 PROTEIN gi\|1914845 (U89496) liguleless1 protein [Zea mays]		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110230	Strand	-
Start	5007	End	14062
Name	OJ991206_04.0421.C7.o2.gs	Method	GENSCAN
Start	5007	End	14062
GI	none	Score	.53
Exons	5007..5138, 5444..5632, 5880..5993, 6179..6242, 6446..6689, 6715..6890, 7169..7213, 7625..7756, 7791..7906, 8283..8680, 11949..12114, 13313..13429, 13551..13748, 13820..14062		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110230	Strand	-
Start	5007	End	14062
Name	OJ991206_04.0421.C7.o2.np	Method	AAT/NAP
Start	8277	End	14032
GI	7433071	Score	751
Exons	8277..8680, 11949..12114, 13551..13748, 13820..14032		
GI Descrip.	peroxidase (EC 1.11.1.7) ATP22a - Arabidopsis thaliana gi\|3004558\|gb\|AAC09031.1\| (AC003673) peroxidase (ATP22a) [Arabidopsis thaliana]		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	73	End	247
GI	none	Score	185
Exons	73..240, 89..247, 90..239		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	8284	End	13964
GI	none	Score	98
Exons	8284..8448, 8289..8684, 11947..12111, 11948..12133, 13551..13715, 13552..13620, 13707..13754, 13729..13761, 13821..13964, 13826..13951		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	8284	End	8409
GI	none	Score	163
Exons	8284..8409, 8286..8408		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	8286	End	13951
GI	none	Score	91
Exons	8286..8684, 8290..8448, 8482..8559, 11947..12111, 11948..12133, 13551..13715, 13725..13754, 13826..13951		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	8409	End	8684
GI	none	Score	315
Exons	8409..8684, 8410..8682		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	13548	End	13754
GI	none	Score	102
Exons	13548..13622, 13548..13754, 13549..13749		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o3.gs	Method	GENSCAN
Start	16370	End	17399
GI	none	Score	.84
Exons	16370..16484, 17326..17399		

Seq. No.	52111	Seq. ID	OJ991206_04.0421.C7
Gene No.	110231	Strand	-
Start	16370	End	18476
Name	OJ991206_04.0421.C7.o3.np	Method	AAT/NAP
Start	16735	End	18476
GI	6069646	Score	169
Exons	16735..16981, 18401..18476		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52112	Seq. ID	OJ991206_04.0421.C9
Gene No.	110232	Strand	-
Start	280	End	1347

Name	OJ991206_04.0421.C9.o1.gs	Method	GENSCAN
Start	280	End	1347
GI	none	Score	.55
Exons	280..310, 1211..1347		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110233	Strand	+
Start	118	End	188
Name	OJ991206_04.0421.C10.o1.gp	Method	AAT/GAP
Start	118	End	188
GI	1631463	Score	78
Exons	118..188		
GI Descrip.	4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110234	Strand	+
Start	594	End	5477
Name	OJ991206_04.0421.C10.o1.gs	Method	GENSCAN
Start	594	End	4584
GI	none	Score	.46
Exons	594..698, 2924..3118, 3642..4065, 4361..4584		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110234	Strand	+
Start	594	End	5477
Name	OJ991206_04.0421.C10.o2.np	Method	AAT/NAP
Start	3412	End	5477
GI	5103834	Score	208
Exons	3412..3491, 3642..3841, 5406..5477		
GI Descrip.	(AC007591) Similar to gb\|AB008104 ethylene responsive element binding factor 2 from Arabidopsis thaliana and contains an PF\|00847 AP2 domain. EST gb\|AA728476 comes from this gene.		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110235	Strand	-
Start	472	End	11657
Name	OJ991206_04.0421.C10.o1.np	Method	AAT/NAP
Start	472	End	11657
GI	4680183	Score	194
Exons	472..561, 1172..1262, 11352..11657		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110235	Strand	-
Start	472	End	11657
Name	OJ991206_04.0421.C10.o2.gp	Method	AAT/GAP
Start	4997	End	5567
GI	26033_1.R1084	Score	1105
Exons	4997..5567		
GI Descrip.	'4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110235	Strand	-

Start	472	End	11657
Name	OJ991206_04.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	5104	End	10707
GI	none	Score	135
Exons	5104..5199, 5245..5289, 5488..5673, 5492..5668, 5783..5872, 5783..5872, 7723..7791, 8253..8357, 8309..8356, 8467..8718, 8468..8677, 9192..9296, 9193..9297, 9193..9297, 9194..9301, 9419..9490, 9421..9591, 9429..9554, 9430..9579, 9564..9719, 9586..9720, 9586..9705, 9600..9719, 9726..9785, 9729..9800, 10612..10680, 10614..10682, 10615..10707		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110235	Strand	-
Start	472	End	11657
Name	OJ991206_04.0421.C10.o2.gs	Method	GENSCAN
Start	5417	End	11353
GI	none	Score	.84
Exons	5417..5675, 5783..5915, 7163..7292, 8292..8359, 8469..8673, 9132..9305, 9420..9777, 10616..10706, 11290..11353		

Seq. No.	52113	Seq. ID	OJ991206_04.0421.C10
Gene No.	110235	Strand	-
Start	472	End	11657
Name	OJ991206_04.0421.C10.o3.gp	Method	AAT/GAP
Start	8590	End	9586
GI	uC-osf1M202081a05b1	Score	755
Exons	8590..8673, 9132..9305, 9420..9586		
GI Descrip.	'2832605/emb\|CAA16546.1\| 2.0e-09 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	52114	Seq. ID	OJ991206_04.0421.C13
Gene No.	110236	Strand	+
Start	208	End	1445
Name	OJ991206_04.0421.C13.o1.gs	Method	GENSCAN
Start	208	End	1404
GI	none	Score	.84
Exons	208..661, 1256..1404		

Seq. No.	52114	Seq. ID	OJ991206_04.0421.C13
Gene No.	110236	Strand	+
Start	208	End	1445
Name	OJ991206_04.0421.C13.o1.np	Method	AAT/NAP
Start	852	End	1445
GI	6063557	Score	335
Exons	852..1034, 1283..1445		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	52115	Seq. ID	OJ991206_04.0421.C14
Gene No.	110237	Strand	+
Start	299	End	1502
Name	OJ991206_04.0421.C14.o1.gs	Method	GENSCAN
Start	299	End	1502
GI	none	Score	.47
Exons	299..422, 719..1003, 1009..1152, 1444..1502		

Seq. No.	52115	Seq. ID	OJ991206_04.0421.C14
Gene No.	110238	Strand	-

Start	2801	End	3001
Name	OJ991206_04.0421.C14.o2.gs	Method	GENSCAN
Start	2801	End	3001
GI	none	Score	.92
Exons	2801..3001		

Seq. No.	52116	Seq. ID	OJ991206_04.0421.C16
Gene No.	110239	Strand	+
Start	1	End	519
Name	OJ991206_04.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	519
GI	5852084	Score	68
Exons	1..34, 427..519		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52116	Seq. ID	OJ991206_04.0421.C16
Gene No.	110239	Strand	+
Start	1	End	519
Name	OJ991206_04.0421.C16.o1.gs	Method	GENSCAN
Start	234	End	436
GI	none	Score	.49
Exons	234..290, 368..436		

Seq. No.	52117	Seq. ID	OJ991206_04.0421.C17
Gene No.	110240	Strand	-
Start	177	End	736
Name	OJ991206_04.0421.C17.o1.gs	Method	GENSCAN
Start	177	End	736
GI	none	Score	.7
Exons	177..307, 645..736		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110241	Strand	+
Start	247	End	11318
Name	OJ991206_04.0421.C18.o1.gs	Method	GENSCAN
Start	247	End	11318
GI	none	Score	.94
Exons	247..325, 1660..1800, 1952..2040, 3656..3775, 3892..4128, 4906..5790, 5886..5990, 6073..6217, 6299..6463, 6544..6782, 6877..6909, 6993..7074, 7170..7330, 7435..7608, 7701..7883, 7984..8171, 8307..8399, 8589..8619, 10591..10697, 11048..11318		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110241	Strand	+
Start	247	End	11318
Name	OJ991206_04.0421.C18.o1.np	Method	AAT/NAP
Start	1999	End	8400
GI	1076809	Score	4119
Exons	1999..2040, 3656..3775, 3892..4128, 4906..5790, 5886..5990, 6073..6217, 6299..6463, 6544..6782, 6877..6909, 6993..7074, 7170..7330, 7435..7608, 7701..7883, 7984..8171, 8307..8400		
GI Descrip.	H+-transporting ATPase (EC 3.6.1.35) - maize gi\|758355\|emb\|CAA59800\| (X85805) H(+)-transporting ATPase [Zea mays]		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110241	Strand	+

Start	247	End	11318
Name	OJ991206_04.0421.C18.o1.gp	Method	AAT/GAP
Start	3956	End	6708
GI	29715_1.R1084	Score	2973
Exons	3956..4128, 4906..5790, 5886..5990, 6073..6217, 6299..6463, 6544..6708		
GI Descrip.	'1076809/pir\|\|S52739 0.0e+00 H+-transporting ATPase (EC 3.6.1.35) - maize >gi_758355_emb_CAA59800_ (X85805) H(+)-transporting ATPase [Zea mays]'		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110241	Strand	+
Start	247	End	11318
Name	OJ991206_04.0421.C18.o2.gp	Method	AAT/GAP
Start	7152	End	8782
GI	17527_1.R1084	Score	2236
Exons	7152..7330, 7435..7608, 7701..7883, 7984..8171, 8307..8782		
GI Descrip.	'1076809/pir\|\|S52739 1.0e-138 H+-transporting ATPase (EC 3.6.1.35) - maize >gi_758355_emb_CAA59800_ (X85805) H(+)-transporting ATPase [Zea mays]'		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o1.tc	Method	TBLASTX:Cress
Start	3655	End	8403
GI	none	Score	166
Exons	3655..3786, 3656..3790, 3879..4073, 3889..4131, 3889..4113, 4903..5793, 4904..5104, 4905..5789, 5627..5803, 5882..5983, 5883..5993, 6069..6218, 6070..6219, 6072..6218, 6295..6462, 6298..6459, 6351..6461, 6517..6621, 6537..6638, 6542..6631, 6623..6781, 6624..6785, 6877..6924, 6879..6920, 6993..7076, 6996..7076, 7165..7326, 7169..7330, 7169..7330, 7170..7331, 7405..7617, 7411..7608, 7419..7616, 7623..7883, 7694..7891, 7700..7882, 7982..8074, 7987..8079, 8095..8172, 8133..8180, 8304..8402, 8305..8403		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o3.ts	Method	TBLASTX:Soybean
Start	3655	End	4962
GI	none	Score	166
Exons	3655..3777, 3656..3775, 3879..4073, 3889..4143, 4091..4129, 4903..4962, 4905..4961		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	3679	End	8456
GI	none	Score	70
Exons	3679..3777, 3691..3777, 3692..3790, 3747..3779, 3879..4073, 3889..4131, 3889..4113, 4100..4138, 4883..5791, 4903..5811, 4905..5789, 5474..5806, 5882..5992, 5883..5990, 6069..6218, 6070..6219, 6103..6219, 6295..6462, 6298..6462, 6344..6463, 6347..6514, 6537..6785, 6542..6781, 6594..6782, 6877..6909,		

6879..6908, 6992..7078, 6993..7076, 7165..7326, 7169..7330,
7169..7330, 7170..7331, 7403..7495, 7408..7608, 7414..7617,
7419..7616, 7700..7882, 7701..7883, 7722..7883, 7855..7884,
7976..8080, 7983..8171, 7983..8084, 7987..8172, 8133..8171,
8296..8403, 8304..8456, 8305..8403

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o3.tw	Method	TBLASTX:Wheat
Start	3889	End	5170
GI	none	Score	83

Exons 3889..3984, 3984..4064, 3985..4131, 4078..4113, 4091..4132,
4867..5169, 4883..5170, 4903..5169

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	4963	End	6219
GI	none	Score	1301

Exons 4963..5811, 4965..5798, 5878..5997, 5883..5990, 5885..5992,
6069..6215, 6070..6216, 6103..6219

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o2.tw	Method	TBLASTX:Wheat
Start	5171	End	5553
GI	none	Score	315

Exons 5171..5551, 5171..5215, 5172..5552, 5172..5552, 5173..5553,
5179..5553

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	5928	End	7735
GI	none	Score	91

Exons 5928..5990, 5930..5992, 5930..5992, 5937..5996, 6069..6218,
6070..6219, 6295..6462, 6298..6462, 6350..6463, 6517..6645,
6524..6649, 6537..6785, 6542..6781, 6875..6904, 6876..6905,
6993..7076, 6993..7076, 7165..7329, 7169..7330, 7414..7617,
7436..7609, 7437..7616, 7547..7624, 7694..7735, 7701..7733

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o2.ts	Method	TBLASTX:Soybean
Start	6295	End	8427
GI	none	Score	268

Exons 6295..6462, 6301..6462, 6537..6785, 6542..6781, 6876..6908,
6992..7078, 6996..7076, 7165..7326, 7169..7330, 7169..7330,
7171..7338, 7418..7576, 7419..7616, 7426..7617, 7694..7864,
7700..7882, 7722..7883, 7722..7883, 7982..8071, 7983..8078,
7987..8088, 8086..8172, 8133..8180, 8304..8405, 8305..8427

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o4.tw	Method	TBLASTX:Wheat
Start	7736	End	8094
GI	none	Score	262
Exons	7736..7882, 7737..7883, 7743..7883, 7849..7893, 7973..8074, 7976..8077, 7983..8093, 7983..8087, 7987..8094		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o5.tw	Method	TBLASTX:Wheat
Start	8095	End	8598
GI	none	Score	124
Exons	8095..8172, 8097..8174, 8133..8180, 8304..8405, 8305..8406, 8514..8540, 8518..8541, 8537..8569, 8540..8569, 8559..8597, 8578..8598		

Seq. No.	52118	Seq. ID	OJ991206_04.0421.C18
Gene No.	110242	Strand	-
Start	14543	End	15475
Name	OJ991206_04.0421.C18.o2.gs	Method	GENSCAN
Start	14543	End	15475
GI	none	Score	.45
Exons	14543..14609, 14917..15024, 15441..15475		

Seq. No.	52119	Seq. ID	OJ991206_04.0421.C19
Gene No.	110243	Strand	+
Start	47	End	290
Name	OJ991206_04.0421.C19.o1.gs	Method	GENSCAN
Start	47	End	290
GI	none	Score	.76
Exons	47..125, 163..290		

Seq. No.	52119	Seq. ID	OJ991206_04.0421.C19
Gene No.	110244	Strand	-
Start	2257	End	3357
Name	OJ991206_04.0421.C19.o2.gs	Method	GENSCAN
Start	2257	End	3357
GI	none	Score	.69
Exons	2257..2336, 2763..2917, 3230..3357		

Seq. No.	52120	Seq. ID	OJ991206_04.0421.C20
Gene No.	110245	Strand	-
Start	890	End	3196
Name	OJ991206_04.0421.C20.o1.gs	Method	GENSCAN
Start	890	End	3196
GI	none	Score	.4
Exons	890..1089, 2247..2377, 2857..2964, 3107..3196		

Seq. No.	52121	Seq. ID	OJ991206_04.0421.C22
Gene No.	110246	Strand	-
Start	766	End	1643
Name	OJ991206_04.0421.C22.o1.gs	Method	GENSCAN
Start	766	End	1643
GI	none	Score	.73

Exons	766..784, 1495..1643		
Seq. No.	52122	Seq. ID	OJ991206_04.0421.C23
Gene No.	110247	Strand	+
Start	271	End	395
Name	OJ991206_04.0421.C23.o1.gs	Method	GENSCAN
Start	271	End	395
GI	none	Score	.71
Exons	271..395		
Seq. No.	52123	Seq. ID	OJ990626_32.0419.C1
Gene No.	110248	Strand	-
Start	1	End	716
Name	OJ990626_32.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	716
GI	2129478	Score	63
Exons	1..164, 359..716		
GI Descrip.	chitinase (EC 3.2.1.14) precursor - beet gi\|488731\|emb\|CAA55883\| (X79301) chitinase [Beta vulgaris] gi\|829258\|emb\|CAA56946\| (X81056) Chitinase [Beta vulgaris]		
Seq. No.	52124	Seq. ID	OJ990626_32.0419.C2
Gene No.	110249	Strand	-
Start	577	End	1004
Name	OJ990626_32.0419.C2.o1.gp	Method	AAT/GAP
Start	577	End	1004
GI	none	Score	672
Exons	577..1004		
Seq. No.	52124	Seq. ID	OJ990626_32.0419.C2
Gene No.	110250	Strand	-
Start	1351	End	1680
Name	OJ990626_32.0419.C2.o2.gp	Method	AAT/GAP
Start	1351	End	1680
GI	LIB3475-008-P1-K1-D3	Score	625
Exons	1351..1680		
GI Descrip.	'1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		
Seq. No.	52124	Seq. ID	OJ990626_32.0419.C2
Gene No.	110251	Strand	-
Start	1724	End	1969
Name	OJ990626_32.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	834	End	1163
GI	none	Score	124
Exons	834..941, 836..943, 837..941, 945..1049, 958..1053, 958..1053, 1058..1135, 1059..1163, 1063..1134		
Seq. No.	52124	Seq. ID	OJ990626_32.0419.C2
Gene No.	110251	Strand	-
Start	1724	End	1969
Name	OJ990626_32.0419.C2.o3.gp	Method	AAT/GAP
Start	1724	End	1969
GI	2310440	Score	427
Exons	1724..1969		
Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3

Gene No.	110252	Strand	+
Start	6653	End	9346
Name	OJ990626_32.0419.C3.o2.gs	Method	GENSCAN
Start	6653	End	9346
GI	none	Score	.65
Exons	6653..6712, 6846..6872, 7412..7504, 8347..8601, 8637..9040, 9139..9346		

Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3
Gene No.	110253	Strand	+
Start	11656	End	12924
Name	OJ990626_32.0419.C3.o3.gs	Method	GENSCAN
Start	11656	End	12924
GI	none	Score	.78
Exons	11656..11778, 11953..12129, 12829..12924		

Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3
Gene No.	110254	Strand	-
Start	847	End	6223
Name	OJ990626_32.0419.C3.o1.gs	Method	GENSCAN
Start	847	End	5431
GI	none	Score	.49
Exons	847..904, 1787..1954, 2063..2701, 4061..4148, 4248..4356, 4873..5065, 5385..5431		

Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3
Gene No.	110254	Strand	-
Start	847	End	6223
Name	OJ990626_32.0419.C3.o1.np	Method	AAT/NAP
Start	1242	End	6223
GI	4581110	Score	115
Exons	1242..1512, 6169..6223		
GI Descrip.	(AC005825) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3
Gene No.	110255	Strand	-
Start	13912	End	14317
Name	OJ990626_32.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1233	End	1444
GI	none	Score	43
Exons	1233..1355, 1261..1350, 1353..1439, 1355..1444		

Seq. No.	52125	Seq. ID	OJ990626_32.0419.C3
Gene No.	110255	Strand	-
Start	13912	End	14317
Name	OJ990626_32.0419.C3.o4.gs	Method	GENSCAN
Start	13912	End	14317
GI	none	Score	.68
Exons	13912..13965, 14243..14317		

Seq. No.	52126	Seq. ID	OJ990626_32.0419.C4
Gene No.	110256	Strand	+
Start	62	End	715
Name	OJ990626_32.0419.C4.o1.gs	Method	GENSCAN
Start	62	End	715
GI	none	Score	.98

Exons	62..715		
Seq. No.	52126	Seq. ID	OJ990626_32.0419.C4
Gene No.	110257	Strand	-
Start	1188	End	1741
Name	OJ990626_32.0419.C4.o2.gs	Method	GENSCAN
Start	1188	End	1741
GI	none	Score	.59
Exons	1188..1379, 1646..1741		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110258	Strand	+
Start	1	End	3811
Name	OJ990626_32.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	3811
GI	6466937	Score	1614
Exons	1..1451, 1478..2702, 3783..3811		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110258	Strand	+
Start	1	End	3811
Name	OJ990626_32.0419.C5.o2.gs	Method	GENSCAN
Start	2489	End	2956
GI	none	Score	.6
Exons	2489..2956		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	111	End	581
GI	none	Score	426
Exons	111..581, 267..440		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	204	End	677
GI	none	Score	384
Exons	204..677, 281..511, 548..676		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	240	End	554
GI	none	Score	192
Exons	240..554		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	677	End	958

GI	none	Score	201
Exons	677..958		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	686	End	1072
GI	none	Score	241
Exons	686..1072, 703..960		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	692	End	1222
GI	none	Score	444
Exons	692..1222, 730..894, 962..1213		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o4.ts	Method	TBLASTX:Soybean
Start	980	End	1225
GI	none	Score	178
Exons	980..1225, 982..1122		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	1223	End	1643
GI	none	Score	93
Exons	1223..1318, 1223..1333, 1225..1335, 1324..1416, 1449..1643		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	1439	End	1846
GI	none	Score	262
Exons	1439..1846, 1449..1844		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1679	End	2308
GI	none	Score	104
Exons	1679..2059, 1679..2050, 1701..2060, 2059..2304, 2060..2308		

Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1698	End	2060
GI	none	Score	254

Exons	1698..2060, 1698..1886, 1730..1993		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o4.tw	Method	TBLASTX:Wheat
Start	1932	End	2317
GI	none	Score	82
Exons	1932..2057, 2054..2317		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	2349	End	2870
GI	none	Score	95
Exons	2349..2468, 2474..2680, 2708..2797, 2817..2870		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o5.tw	Method	TBLASTX:Wheat
Start	2480	End	2766
GI	none	Score	194
Exons	2480..2713, 2545..2766		
Seq. No.	52127	Seq. ID	OJ990626_32.0419.C5
Gene No.	110259	Strand	-
Start	3441	End	3641
Name	OJ990626_32.0419.C5.o3.gs	Method	GENSCAN
Start	3441	End	3641
GI	none	Score	.85
Exons	3441..3641		
Seq. No.	52128	Seq. ID	OJ990626_32.0419.C6
Gene No.	110260	Strand	-
Start	4079	End	4744
Name	OJ990626_32.0419.C6.o2.gs	Method	GENSCAN
Start	4079	End	4744
GI	none	Score	.71
Exons	4079..4744		
Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110261	Strand	+
Start	7111	End	7168
Name	OJ990626_32.0419.C7.o1.gp	Method	AAT/GAP
Start	7111	End	7168
GI	2312838	Score	68
Exons	7111..7168		
GI Descrip.	1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		
Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110262	Strand	+
Start	10298	End	14454
Name	OJ990626_32.0419.C7.o1.np	Method	AAT/NAP
Start	10283	End	14454

GI	7489738	Score	4322
Exons	10283..14454		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi\|4234852\|gb\|AAD12997.1\| (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110262	Strand	+
Start	10298	End	14454
Name	OJ990626_32.0419.C7.o4.gs	Method	GENSCAN
Start	10298	End	12115
GI	none	Score	.95
Exons	10298..12115		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110263	Strand	+
Start	15523	End	19002
Name	OJ990626_32.0419.C7.o2.np	Method	AAT/NAP
Start	15523	End	19002
GI	7340860	Score	115
Exons	15523..15728, 16375..16547, 18975..19002		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110264	Strand	+
Start	19450	End	19809
Name	OJ990626_32.0419.C7.o5.gp	Method	AAT/GAP
Start	19450	End	19809
GI	2309731	Score	594
Exons	19450..19809		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110265	Strand	+
Start	19911	End	20117
Name	OJ990626_32.0419.C7.o6.gp	Method	AAT/GAP
Start	19911	End	20117
GI	4714159	Score	328
Exons	19911..20117		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110266	Strand	-
Start	64	End	1652
Name	OJ990626_32.0419.C7.o1.gs	Method	GENSCAN
Start	64	End	1652
GI	none	Score	.7
Exons	64..1652		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110267	Strand	-
Start	8059	End	9234
Name	OJ990626_32.0419.C7.o3.gs	Method	GENSCAN
Start	8059	End	9234
GI	none	Score	.93
Exons	8059..8291, 9018..9234		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7

Gene No.	110268	Strand	-
Start	16876	End	16940
Name	OJ990626_32.0419.C7.o3.gp	Method	AAT/GAP
Start	16876	End	16940
GI	2312838	Score	78
Exons	16876..16940		
GI Descrip.	1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110269	Strand	-
Start	19145	End	19259
Name	OJ990626_32.0419.C7.o4.gp	Method	AAT/GAP
Start	19145	End	19259
GI	36349_1.R1084	Score	160
Exons	19145..19259		
GI Descrip.	'1698774/gb\|U70311\|CVU70311 1.0e-20 Filamentous phage display expression cloning vector pZGT5 with murine Ig kappa light chain fragment insert, complete sequence'		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110270	Strand	-
Start	20259	End	23406
Name	OJ990626_32.0419.C7.o6.gs	Method	GENSCAN
Start	20259	End	23406
GI	none	Score	.66
Exons	20259..20566, 20790..20890, 22128..22204, 22261..23406		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110270	Strand	-
Start	20259	End	23406
Name	OJ990626_32.0419.C7.o7.gp	Method	AAT/GAP
Start	20300	End	20774
GI	36349_1.R1084	Score	641
Exons	20300..20774		
GI Descrip.	'1698774/gb\|U70311\|CVU70311 1.0e-20 Filamentous phage display expression cloning vector pZGT5 with murine Ig kappa light chain fragment insert, complete sequence'		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110270	Strand	-
Start	20259	End	23406
Name	OJ990626_32.0419.C7.o8.gp	Method	AAT/GAP
Start	20336	End	20774
GI	36349_1.R1084	Score	649
Exons	20336..20774		
GI Descrip.	'1698774/gb\|U70311\|CVU70311 1.0e-20 Filamentous phage display expression cloning vector pZGT5 with murine Ig kappa light chain fragment insert, complete sequence'		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110271	Strand	-
Start	25350	End	26696
Name	OJ990626_32.0419.C7.o7.gs	Method	GENSCAN
Start	25350	End	26696
GI	none	Score	.91
Exons	25350..26696		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o5.ts	Method	TBLASTX:Soybean
Start	297	End	863
GI	none	Score	63
Exons	297..470, 510..665, 651..863, 703..804		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	303	End	1088
GI	none	Score	89
Exons	303..437, 453..596, 615..746, 753..872, 924..1088		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	10433	End	11331
GI	none	Score	212
Exons	10433..10672, 10447..10671, 10669..10866, 10670..10909, 10706..10873, 10707..10916, 10806..10886, 11042..11146, 11257..11331		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	11744	End	12090
GI	none	Score	102
Exons	11744..11845, 11851..12090, 11879..12088		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	11797	End	12460
GI	none	Score	248
Exons	11797..12036, 11798..12037, 12077..12382, 12124..12189, 12362..12460		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	11813	End	12301
GI	none	Score	117
Exons	11813..12037, 12086..12271, 12088..12249, 12227..12301		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	12077	End	12457

GI	none	Score	119
Exons	12077..12277, 12290..12457		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	12092	End	12463
GI	none	Score	172
Exons	12092..12286, 12133..12258, 12290..12463		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	12935	End	13393
GI	5509260	Score	366
Exons	12935..13393, 12943..13173, 12947..13372		
GI Descrip.	-		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	13022	End	13282
GI	none	Score	239
Exons	13022..13282, 13024..13263		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	13063	End	13853
GI	none	Score	346
Exons	13063..13158, 13064..13408, 13082..13417, 13394..13540, 13396..13494, 13470..13559, 13531..13842, 13548..13679, 13740..13853		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	13064	End	13513
GI	none	Score	323
Exons	13064..13513, 13210..13371, 13217..13492		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	13828	End	14400
GI	none	Score	253
Exons	13828..14220, 14218..14400		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128

Name	OJ990626_32.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	13828	End	14415
GI	none	Score	239
Exons	13828..14172, 13950..14135, 14224..14415		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	13936	End	14403
GI	none	Score	321
Exons	13936..14403, 13980..14234		

Seq. No.	52129	Seq. ID	OJ990626_32.0419.C7
Gene No.	110272	Strand	-
Start	27661	End	28128
Name	OJ990626_32.0419.C7.o9.gp	Method	AAT/GAP
Start	27661	End	28128
GI	LIB3477-003-P1-K1-E9	Score	129
Exons	27661..27686, 28061..28128		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52130	Seq. ID	OJ990626_32.0419.C8
Gene No.	110273	Strand	-
Start	338	End	590
Name	OJ990626_32.0419.C8.o1.gs	Method	GENSCAN
Start	338	End	590
GI	none	Score	.7
Exons	338..414, 471..590		

Seq. No.	52131	Seq. ID	OJ990626_32.0419.C9
Gene No.	110274	Strand	+
Start	3384	End	9746
Name	OJ990626_32.0419.C9.o1.np	Method	AAT/NAP
Start	3384	End	9235
GI	7106512	Score	3901
Exons	3384..3443, 3517..3684, 3930..4076, 4266..4730, 5713..6445, 7242..7366, 7546..8450, 8630..8807, 8862..9235		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52131	Seq. ID	OJ990626_32.0419.C9
Gene No.	110274	Strand	+
Start	3384	End	9746
Name	OJ990626_32.0419.C9.o3.gs	Method	GENSCAN
Start	5780	End	9746
GI	none	Score	.66
Exons	5780..6481, 7304..8807, 8862..9254, 9349..9746		

Seq. No.	52132	Seq. ID	OJ990626_32.0419.C10
Gene No.	110275	Strand	+
Start	501	End	664
Name	OJ990626_32.0419.C10.o1.gs	Method	GENSCAN
Start	501	End	664
GI	none	Score	.43

Exons	501..664		
Seq. No.	52132	Seq. ID	OJ990626_32.0419.C10
Gene No.	110276	Strand	-
Start	1640	End	3945
Name	OJ990626_32.0419.C10.o2.gs	Method	GENSCAN
Start	1640	End	3945
GI	none	Score	.54
Exons	1640..2112, 3885..3945		
Seq. No.	52132	Seq. ID	OJ990626_32.0419.C10
Gene No.	110277	Strand	-
Start	3877	End	4005
Name	OJ990626_32.0419.C10.o2.np	Method	AAT/NAP
Start	3877	End	4005
GI	4574137	Score	145
Exons	3877..4005		
GI Descrip.	(AF073696) cysteine synthase [Oryza sativa]		
Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110278	Strand	+
Start	5424	End	9879
Name	OJ990626_32.0419.C11.o4.np	Method	AAT/NAP
Start	5424	End	9879
GI	6069646	Score	608
Exons	5424..5476, 8538..9117, 9438..9879		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110278	Strand	+
Start	5424	End	9879
Name	OJ990626_32.0419.C11.o5.np	Method	AAT/NAP
Start	9173	End	9879
GI	7487670	Score	70
Exons	9173..9408, 9820..9879		
GI Descrip.	hypothetical protein T5C23.140 - Arabidopsis thaliana gi\|4539462\|emb\|CAB39942.1\| (AL049500) putative protein [Arabidopsis thaliana] gi\|7267871\|emb\|CAB78214.1\| (AL161532) putative protein [Arabidopsis thaliana]		
Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110279	Strand	-
Start	1	End	6294
Name	OJ990626_32.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1705
GI	7436947	Score	399
Exons	1..157, 400..525, 756..958, 1141..1279, 1602..1705		
GI Descrip.	probable cysteine synthase (EC 4.2.99.8) 1A precursor - Chlamydomonas reinhardtii gi\|3342569\|gb\|AAC27794.1\| (AF078693) putative O-acetylserine(thiol)lyase precursor [Chlamydomonas reinhardtii]		
Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11

Gene No.	110279	Strand	-
Start	1	End	6294
Name	OJ990626_32.0419.C11.o1.gs	Method	GENSCAN
Start	70	End	6294
GI	none	Score	.9
Exons	70..157, 400..525, 756..958, 1141..1268, 1603..1725, 3135..3328, 3786..3944, 4088..4213, 4473..4675, 4862..4989, 5293..5535, 6208..6294		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110279	Strand	-
Start	1	End	6294
Name	OJ990626_32.0419.C11.o1.gp	Method	AAT/GAP
Start	2635	End	5580
GI	878_1.R1084	Score	2884
Exons	2635..3051, 3135..3328, 3786..3944, 4088..4213, 4473..4675, 4862..4989, 5293..5580		
GI Descrip.	'5042437/gb\|AC007789.1\|AC007789 1.0e-65 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110279	Strand	-
Start	1	End	6294
Name	OJ990626_32.0419.C11.o2.np	Method	AAT/NAP
Start	2929	End	5430
GI	4574137	Score	1652
Exons	2929..3051, 3135..3328, 3786..3944, 4088..4213, 4473..4675, 4862..4989, 5293..5430		
GI Descrip.	(AF073696) cysteine synthase [Oryza sativa]		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	1	End	3855
GI	none	Score	67
Exons	1..66, 3..68, 2935..3054, 2939..3049, 2956..3054, 3126..3365, 3133..3333, 3784..3855, 3785..3853		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o5.tm	Method	TBLASTX:Maize
Start	1	End	4220
GI	none	Score	170
Exons	1..159, 3..161, 375..530, 377..532, 3784..3957, 3785..3859, 3896..3946, 4086..4220, 4087..4218		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	3	End	4681
GI	none	Score	115
Exons	3..161, 10..159, 377..526, 757..960, 758..961, 2929..3054, 2930..3049, 3132..3332, 3133..3216, 3147..3320, 3277..3333, 3784..3954, 3852..3944, 4086..4214, 4474..4674, 4475..4681		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	3	End	4678
GI	none	Score	128
Exons	3..161, 13..159, 377..526, 757..960, 758..964, 2801..2875, 2929..3054, 3132..3311, 3132..3332, 3136..3333, 3784..3954, 4086..4214, 4474..4674, 4475..4678		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	757	End	4675
GI	none	Score	133
Exons	757..960, 758..952, 4474..4674, 4475..4675		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	757	End	4995
GI	none	Score	220
Exons	757..957, 758..973, 776..967, 781..975, 1143..1271, 1144..1269, 4474..4677, 4475..4681, 4493..4678, 4855..4995, 4862..4993		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	2714	End	3333
GI	none	Score	37
Exons	2714..2767, 2873..3049, 2873..3043, 2926..3072, 2935..3054, 3126..3332, 3133..3333		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110280	Strand	-
Start	6290	End	6373
Name	OJ990626_32.0419.C11.o3.np	Method	AAT/NAP
Start	6290	End	6373
GI	5852084	Score	71
Exons	6290..6373		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110281	Strand	
Start	8603	End	9335
Name	OJ990626_32.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	8603	End	9335
GI	none	Score	70
Exons	8603..8809, 8634..8807, 8635..9123, 8877..9107, 9125..9331, 9141..9335		

Seq. No.	52133	Seq. ID	OJ990626_32.0419.C11
Gene No.	110282	Strand	

Start	9344	End	9695
Name	OJ990626_32.0419.C11.o4.tm	Method	TBLASTX:Maize
Start	9344	End	9695
GI	none	Score	46
Exons	9344..9376, 9431..9673, 9438..9695		

Seq. No.	52134	Seq. ID	OJ990626_32.0419.C13
Gene No.	110283	Strand	-
Start	854	End	1297
Name	OJ990626_32.0419.C13.o1.gs	Method	GENSCAN
Start	854	End	1297
GI	none	Score	.52
Exons	854..930, 1255..1297		

Seq. No.	52135	Seq. ID	OJ990626_32.0419.C14
Gene No.	110284	Strand	+
Start	197	End	433
Name	OJ990626_32.0419.C14.o1.gs	Method	GENSCAN
Start	197	End	433
GI	none	Score	.43
Exons	197..280, 345..433		

Seq. No.	52136	Seq. ID	OJ990626_32.0419.C16
Gene No.	110285	Strand	+
Start	2043	End	2596
Name	OJ990626_32.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1624	End	2015
GI	none	Score	86
Exons	1624..1764, 1628..1810, 1631..1813, 1897..2010, 1898..1969, 1899..2015		

Seq. No.	52136	Seq. ID	OJ990626_32.0419.C16
Gene No.	110285	Strand	+
Start	2043	End	2596
Name	OJ990626_32.0419.C16.o1.np	Method	AAT/NAP
Start	2043	End	2596
GI	5091507	Score	90
Exons	2043..2244, 2490..2596		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	52137	Seq. ID	OJ990626_32.0419.C17
Gene No.	110286	Strand	-
Start	575	End	1227
Name	OJ990626_32.0419.C17.o1.gs	Method	GENSCAN
Start	575	End	1227
GI	none	Score	.63
Exons	575..770, 879..1076, 1154..1227		

Seq. No.	52138	Seq. ID	OJ990626_32.0419.C18
Gene No.	110287	Strand	+
Start	1644	End	4741
Name	OJ990626_32.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	529	End	906
GI	none	Score	51
Exons	529..843, 545..610, 697..843, 859..906		

Seq. No.	52138	Seq. ID	OJ990626_32.0419.C18

Gene No.	110287	Strand	+
Start	1644	End	4741
Name	OJ990626_32.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1093	End	1515
GI	none	Score	69
Exons	1093..1209, 1094..1204, 1219..1278, 1220..1243, 1270..1515, 1283..1495		

Seq. No.	52138	Seq. ID	OJ990626_32.0419.C18
Gene No.	110287	Strand	+
Start	1644	End	4741
Name	OJ990626_32.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	1141	End	1464
GI	none	Score	182
Exons	1141..1464, 1187..1456		

Seq. No.	52138	Seq. ID	OJ990626_32.0419.C18
Gene No.	110287	Strand	+
Start	1644	End	4741
Name	OJ990626_32.0419.C18.o1.gs	Method	GENSCAN
Start	1644	End	4741
GI	none	Score	.4
Exons	1644..1756, 2802..3011, 3159..3197, 4139..4267, 4468..4551, 4580..4741		

Seq. No.	52139	Seq. ID	OJ990626_32.0419.C19
Gene No.	110288	Strand	-
Start	23	End	2293
Name	OJ990626_32.0419.C19.o1.gs	Method	GENSCAN
Start	23	End	2293
GI	none	Score	.81
Exons	23..1215, 2155..2293		

Seq. No.	52139	Seq. ID	OJ990626_32.0419.C19
Gene No.	110288	Strand	-
Start	23	End	2293
Name	OJ990626_32.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	911	End	1213
GI	none	Score	162
Exons	911..958, 1007..1213		

Seq. No.	52140	Seq. ID	OJ990626_32.0419.C20
Gene No.	110289	Strand	-
Start	1123	End	3418
Name	OJ990626_32.0419.C20.o1.np	Method	AAT/NAP
Start	1123	End	3418
GI	7340881	Score	73
Exons	1123..1181, 2806..2836, 2941..3094, 3387..3418		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110290	Strand	+
Start	10997	End	13291
Name	OJ990626_32.0419.C21.o3.gs	Method	GENSCAN
Start	10997	End	13291
GI	none	Score	.63
Exons	10997..11079, 12574..12653, 12861..13008, 13135..13291		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110291	Strand	+
Start	18484	End	20699
Name	OJ990626_32.0419.C21.o5.gs	Method	GENSCAN
Start	18484	End	20699
GI	none	Score	.48
Exons	18484..18504, 18940..18981, 19781..19905, 20267..20458, 20507..20699		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110292	Strand	-
Start	130	End	9630
Name	OJ990626_32.0419.C21.o1.gs	Method	GENSCAN
Start	130	End	5126
GI	none	Score	.4
Exons	130..187, 699..5126		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110292	Strand	-
Start	130	End	9630
Name	OJ990626_32.0419.C21.o1.np	Method	AAT/NAP
Start	565	End	5126
GI	4680179	Score	7803
Exons	565..5126		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110292	Strand	-
Start	130	End	9630
Name	OJ990626_32.0419.C21.o3.np	Method	AAT/NAP
Start	4258	End	9333
GI	7340881	Score	396
Exons	4258..4351, 4630..4733, 6812..6842, 6946..7075, 8426..8688, 8766..8886, 8979..9101, 9248..9333		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110292	Strand	-
Start	130	End	9630
Name	OJ990626_32.0419.C21.o2.gs	Method	GENSCAN
Start	5378	End	9630
GI	none	Score	.6
Exons	5378..6316, 8163..8209, 8475..8627, 8795..8886, 8979..9012, 9513..9630		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110292	Strand	-
Start	130	End	9630
Name	OJ990626_32.0419.C21.o2.np	Method	AAT/NAP
Start	5381	End	6250
GI	5042448	Score	1232
Exons	5381..6250		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21

Gene No.	110293	Strand	-
Start	10907	End	11448
Name	OJ990626_32.0419.C21.o4.np	Method	AAT/NAP
Start	10907	End	11448
GI	7106508	Score	101
Exons	10907..11115, 11313..11448		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o6.tw	Method	TBLASTX:Wheat
Start	663	End	942
GI	none	Score	98
Exons	663..941, 699..914, 733..942		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	789	End	1388
GI	none	Score	251
Exons	789..1229, 802..1227, 1227..1388, 1234..1380		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	942	End	1568
GI	none	Score	336
Exons	942..1568, 943..1566		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o6.tm	Method	TBLASTX:Maize
Start	1437	End	1728
GI	none	Score	257
Exons	1437..1727, 1441..1728		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o3.ts	Method	TBLASTX:Soybean
Start	1527	End	1787
GI	none	Score	97
Exons	1527..1718, 1527..1787, 1528..1782		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o2.tc	Method	TBLASTX:Cress
Start	1551	End	1868
GI	none	Score	87
Exons	1551..1694, 1552..1692, 1695..1868		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21

Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o3.tw	Method	TBLASTX:Wheat
Start	1575	End	2054
GI	none	Score	305
Exons	1575..2054, 1576..1983, 1608..2021		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	2058	End	2567
GI	none	Score	54
Exons	2058..2567, 2059..2181, 2142..2489, 2224..2535		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	2130	End	2495
GI	none	Score	158
Exons	2130..2441, 2142..2495, 2227..2493		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o5.ts	Method	TBLASTX:Soybean
Start	2316	End	2561
GI	none	Score	202
Exons	2316..2561		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o5.tm	Method	TBLASTX:Maize
Start	2532	End	3032
GI	none	Score	43
Exons	2532..2867, 2575..2625, 2577..2780, 2650..2781, 2853..3032, 2899..3024		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o5.tw	Method	TBLASTX:Wheat
Start	2568	End	2870
GI	none	Score	239
Exons	2568..2870, 2569..2850, 2768..2869		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	2583	End	2978
GI	none	Score	165
Exons	2583..2942, 2584..2847, 2862..2942, 2934..2978, 2946..2978		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21

Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o4.tw	Method	TBLASTX:Wheat
Start	2919	End	3401
GI	none	Score	149
Exons	2919..3401, 2928..3275, 2962..3297		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o7.tm	Method	TBLASTX:Maize
Start	3100	End	3389
GI	none	Score	165
Exons	3100..3291, 3102..3389		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o8.tw	Method	TBLASTX:Wheat
Start	3558	End	3980
GI	none	Score	102
Exons	3558..3749, 3562..3720, 3771..3980, 3832..3930		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o9.tm	Method	TBLASTX:Maize
Start	3663	End	3983
GI	none	Score	70
Exons	3663..3983, 3838..3930		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o8.tm	Method	TBLASTX:Maize
Start	4323	End	4619
GI	none	Score	88
Exons	4323..4619, 4432..4602		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o7.tw	Method	TBLASTX:Wheat
Start	4500	End	4859
GI	none	Score	101
Exons	4500..4859, 4501..4734, 4759..4833		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o10.tm	Method	TBLASTX:Maize
Start	12920	End	13255
GI	none	Score	89
Exons	12920..13000, 13028..13084, 13127..13255		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-

Start	16239	End	21404
Name	OJ990626_32.0419.C21.o2.gp	Method	AAT/GAP
Start	15994	End	16172
GI	LIB3433-038-P1-K1-D1	Score	326
Exons	15994..16172		
GI Descrip.	'2529685 2.0e-17 (AC002535) putative dimethyladenosine transferase [Arabidopsis thaliana]'		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o4.gs	Method	GENSCAN
Start	16239	End	17459
GI	none	Score	.43
Exons	16239..16872, 17398..17459		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o4.tm	Method	TBLASTX:Maize
Start	16239	End	16630
GI	none	Score	199
Exons	16239..16373, 16240..16419, 16243..16374, 16244..16390, 16431..16628, 16463..16630, 16474..16629, 16475..16630		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o6.np	Method	AAT/NAP
Start	16242	End	21337
GI	7433486	Score	1108
Exons	16242..16994, 20999..21337		
GI Descrip.	rRNA (adenine-N6,N6-)-dimethyltransferase homolog T30B22.28 - Arabidopsis thaliana gi\|2529685\|gb\|AAC62868.1\| (AC002535) putative dimethyladenosine transferase [Arabidopsis thaliana]		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	16530	End	16986
GI	none	Score	115
Exons	16530..16985, 16543..16986, 16544..16747, 16549..16986		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	16812	End	21356
GI	none	Score	271
Exons	16812..17000, 16812..16994, 16813..17001, 16813..16995, 20996..21259, 20997..21062, 20999..21244, 21305..21355, 21312..21356		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404

Name	OJ990626_32.0419.C21.o6.gs	Method	GENSCAN
Start	20916	End	21337
GI	none	Score	.97
Exons	20916..20951, 20999..21337		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	20996	End	21340
GI	none	Score	52
Exons	20996..21088, 20997..21059, 21080..21253, 21132..21245, 21308..21340		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o4.ts	Method	TBLASTX:Soybean
Start	21017	End	21253
GI	none	Score	53
Exons	21017..21088, 21018..21062, 21080..21253, 21119..21241, 21132..21245		

Seq. No.	52141	Seq. ID	OJ990626_32.0419.C21
Gene No.	110294	Strand	-
Start	16239	End	21404
Name	OJ990626_32.0419.C21.o3.gp	Method	AAT/GAP
Start	21103	End	21404
GI	5005485	Score	579
Exons	21103..21404		
GI Descrip.	2529685 2.0e-17 (AC002535) putative dimethyladenosine transferase [Arabidopsis thaliana]		

Seq. No.	52142	Seq. ID	OJ990626_32.0419.C22
Gene No.	110295	Strand	-
Start	1299	End	1352
Name	OJ990626_32.0419.C22.o1.gs	Method	GENSCAN
Start	1299	End	1352
GI	none	Score	.49
Exons	1299..1352		

Seq. No.	52143	Seq. ID	OJ990626_32.0419.C23
Gene No.	110296	Strand	-
Start	62	End	205
Name	OJ990626_32.0419.C23.o1.gp	Method	AAT/GAP
Start	62	End	205
GI	LIB3431-027-P1-K1-D5	Score	243
Exons	62..205		
GI Descrip.	'2190552 1.0e-21 (AC001229) Similar to Holcus major pollen allergen (gb_Z27084). [Arabidopsis thaliana]'		

Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110297	Strand	+
Start	822	End	1819
Name	OJ990626_32.0419.C25.o1.gp	Method	AAT/GAP
Start	822	End	1819
GI	none	Score	1501

Exons	822..1104, 1266..1819		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o1.gs	Method	GENSCAN
Start	670	End	5022
GI	none	Score	.57
Exons	670..801, 1242..1283, 1939..2090, 2096..2420, 2516..2611, 3132..3921, 4489..4641, 4784..5022		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o1.np	Method	AAT/NAP
Start	2094	End	6112
GI	7484899	Score	1405
Exons	2094..2420, 2516..2611, 3132..3680, 3708..3921, 4489..4641, 4784..4939, 6084..6112		
GI Descrip.	cytochrome P450 homolog T19L18.2 - Arabidopsis thaliana gi\|3075400\|gb\|AAC14532.1\| (AC004484) putative thromboxane-A synthase [Arabidopsis thaliana]		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o3.tm	Method	TBLASTX:Maize
Start	2112	End	2247
GI	none	Score	138
Exons	2112..2246, 2113..2247		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	3124	End	3344
GI	none	Score	141
Exons	3124..3336, 3126..3344		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	3132	End	3363
GI	none	Score	245
Exons	3132..3362, 3136..3363		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-
Start	670	End	6112
Name	OJ990626_32.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	4539	End	4923
GI	none	Score	59
Exons	4539..4643, 4585..4656, 4777..4923, 4783..4875, 4784..4921		
Seq. No.	52144	Seq. ID	OJ990626_32.0419.C25
Gene No.	110298	Strand	-

Start	670	End	6112
Name	OJ990626_32.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	4557	End	4923
GI	none	Score	41
Exons	4557..4643, 4558..4587, 4579..4635, 4750..4923, 4784..4921		

Seq. No.	52145	Seq. ID	OJ990626_32.0419.C26
Gene No.	110299	Strand	+
Start	1	End	494
Name	OJ990626_32.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	494
GI	7339707	Score	163
Exons	1..285, 352..494		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110300	Strand	+
Start	1	End	1671
Name	OJ990626_32.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1671
GI	7488809	Score	141
Exons	1..362, 1553..1671		
GI Descrip.	heat shock transcription factor A - garden pea (fragment) gi\|3550588\|emb\|CAA09300.1\| (AJ010643) heat shock transcription factor (HSFA) [Pisum sativum]		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110300	Strand	+
Start	1	End	1671
Name	OJ990626_32.0419.C27.o1.gs	Method	GENSCAN
Start	150	End	578
GI	none	Score	.56
Exons	150..578		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110300	Strand	+
Start	1	End	1671
Name	OJ990626_32.0419.C27.o1.gp	Method	AAT/GAP
Start	1274	End	1571
GI	2312809	Score	498
Exons	1274..1571		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110301	Strand	-
Start	1573	End	3201
Name	OJ990626_32.0419.C27.o2.gs	Method	GENSCAN
Start	1573	End	3201
GI	none	Score	.97
Exons	1573..2045, 2595..2703, 2719..3000, 3013..3201		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110302	Strand	-
Start	3257	End	6166
Name	OJ990626_32.0419.C27.o2.np	Method	AAT/NAP
Start	3257	End	6166
GI	6016874	Score	2132
Exons	3257..3512, 3974..4329, 4447..4626, 5020..5179, 5570..5802,		

	5867..6004, 6088..6166
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110302	Strand	-
Start	3257	End	6166
Name	OJ990626_32.0419.C27.o3.gs	Method	GENSCAN
Start	3971	End	6166
GI	none	Score	.55
Exons	3971..4446, 5020..5179, 5714..5802, 5920..6166		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110302	Strand	-
Start	3257	End	6166
Name	OJ990626_32.0419.C27.o2.gp	Method	AAT/GAP
Start	4969	End	5477
GI	uC-osflcyp110c07b1	Score	970
Exons	4969..5477		
GI Descrip.	'4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110303	Strand	-
Start	6553	End	8802
Name	OJ990626_32.0419.C27.o3.tm	Method	TBLASTX:Maize
Start	4275	End	4759
GI	none	Score	48
Exons	4275..4364, 4407..4748, 4478..4759		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110303	Strand	-
Start	6553	End	8802
Name	OJ990626_32.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	4964	End	5278
GI	none	Score	108
Exons	4964..5191, 4965..5183, 5204..5278		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110303	Strand	-
Start	6553	End	8802
Name	OJ990626_32.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	5372	End	5818
GI	none	Score	110
Exons	5372..5410, 5405..5461, 5498..5746, 5538..5747, 5732..5818		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27
Gene No.	110303	Strand	-
Start	6553	End	8802
Name	OJ990626_32.0419.C27.o4.gs	Method	GENSCAN
Start	6553	End	8802
GI	none	Score	.51
Exons	6553..6783, 7206..7322, 8773..8802		

Seq. No.	52146	Seq. ID	OJ990626_32.0419.C27

Gene No.	110303	Strand	-
Start	6553	End	8802
Name	OJ990626_32.0419.C27.o3.np	Method	AAT/NAP
Start	6565	End	6722
GI	6907084	Score	125
Exons	6565..6722		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52147	Seq. ID	OJ990626_32.0419.C29
Gene No.	110304	Strand	+
Start	499	End	1221
Name	OJ990626_32.0419.C29.o1.np	Method	AAT/NAP
Start	499	End	1221
GI	4574137	Score	87
Exons	499..642, 1178..1221		
GI Descrip.	(AF073696) cysteine synthase [Oryza sativa]		

Seq. No.	52148	Seq. ID	OJ990626_32.0419.C30
Gene No.	110305	Strand	+
Start	1	End	187
Name	OJ990626_32.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	187
GI	LIB3434-035-P1-K1-A7	Score	312
Exons	1..187		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52148	Seq. ID	OJ990626_32.0419.C30
Gene No.	110306	Strand	+
Start	807	End	3480
Name	OJ990626_32.0419.C30.o1.gs	Method	GENSCAN
Start	807	End	2949
GI	none	Score	.85
Exons	807..908, 2509..2708, 2936..2949		

Seq. No.	52148	Seq. ID	OJ990626_32.0419.C30
Gene No.	110306	Strand	+
Start	807	End	3480
Name	OJ990626_32.0419.C30.o2.np	Method	AAT/NAP
Start	1245	End	3480
GI	4574137	Score	152
Exons	1245..1275, 2502..2708, 3453..3480		
GI Descrip.	(AF073696) cysteine synthase [Oryza sativa]		

Seq. No.	52148	Seq. ID	OJ990626_32.0419.C30
Gene No.	110307	Strand	-
Start	1462	End	2158
Name	OJ990626_32.0419.C30.o1.np	Method	AAT/NAP
Start	1462	End	2158
GI	6498436	Score	359
Exons	1462..1583, 1844..2158		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	52148	Seq. ID	OJ990626_32.0419.C30
Gene No.	110308	Strand	
Start	2500	End	2710
Name	OJ990626_32.0419.C30.o1.tm	Method	TBLASTX:Maize

Start	2500	End	2710
GI	none	Score	65
Exons	2500..2556, 2510..2563, 2554..2709, 2555..2710		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110309	Strand	+
Start	1	End	3340
Name	OJ990626_32.0419.C31.o2.np	Method	AAT/NAP
Start	1	End	3340
GI	4574137	Score	456
Exons	1..70, 1666..1782, 2066..2224, 2352..2553, 3246..3340		
GI Descrip.	(AF073696) cysteine synthase [Oryza sativa]		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110309	Strand	+
Start	1	End	3340
Name	OJ990626_32.0419.C31.o1.gs	Method	GENSCAN
Start	958	End	2288
GI	none	Score	.77
Exons	958..1156, 1663..1782, 2066..2224, 2275..2288		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110310	Strand	-
Start	1	End	1095
Name	OJ990626_32.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1095
GI	7340884	Score	144
Exons	1..21, 875..1095		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110311	Strand	
Start	1689	End	3335
Name	OJ990626_32.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	1689	End	3293
GI	none	Score	83
Exons	1689..1784, 2061..2225, 2062..2226, 2439..2567, 2440..2571, 3243..3293		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110311	Strand	
Start	1689	End	3335
Name	OJ990626_32.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	2043	End	2226
GI	none	Score	204
Exons	2043..2225, 2062..2226		

Seq. No.	52149	Seq. ID	OJ990626_32.0419.C31
Gene No.	110311	Strand	
Start	1689	End	3335
Name	OJ990626_32.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	2061	End	3335
GI	none	Score	201
Exons	2061..2225, 2062..2226, 2440..2556, 2457..2537, 3243..3335		

Seq. No.	52150	Seq. ID	OJ990626_32.0419.C34

Gene No.	110312	Strand	+
Start	1063	End	1140
Name	OJ990626_32.0419.C34.o1.gp	Method	AAT/GAP
Start	1063	End	1140
GI	15870_2.R1084	Score	110
Exons	1063..1140		
GI Descrip.	'287403/dbj\|D10838\|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'		

Seq. No.	52151	Seq. ID	OJ990626_32.0419.C35
Gene No.	110313	Strand	+
Start	919	End	3178
Name	OJ990626_32.0419.C35.o1.gs	Method	GENSCAN
Start	919	End	3178
GI	none	Score	.87
Exons	919..1348, 2215..3178		

Seq. No.	52151	Seq. ID	OJ990626_32.0419.C35
Gene No.	110313	Strand	+
Start	919	End	3178
Name	OJ990626_32.0419.C35.o1.np	Method	AAT/NAP
Start	1204	End	2625
GI	7228448	Score	86
Exons	1204..1295, 2404..2625		
GI Descrip.	(AP001366) ESTs AU068685(C30691),AU068684(C30691) correspond to a region of the predicted gene.; Similar to Genomic sequence for Arabidopsis thaliana BAC F21J9, F21J9.24. (AC000103) [Oryza sativa]		

Seq. No.	52152	Seq. ID	OJ990626_32.0419.C37
Gene No.	110314	Strand	+
Start	542	End	2118
Name	OJ990626_32.0419.C37.o1.gs	Method	GENSCAN
Start	542	End	954
GI	none	Score	.89
Exons	542..813, 915..954		

Seq. No.	52152	Seq. ID	OJ990626_32.0419.C37
Gene No.	110314	Strand	+
Start	542	End	2118
Name	OJ990626_32.0419.C37.o1.np	Method	AAT/NAP
Start	542	End	2118
GI	7267777	Score	120
Exons	542..864, 2084..2118		
GI Descrip.	(AL161518) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	52152	Seq. ID	OJ990626_32.0419.C37
Gene No.	110315	Strand	-
Start	1461	End	1581
Name	OJ990626_32.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	532	End	815
GI	none	Score	115
Exons	532..642, 535..684, 548..685, 679..705, 720..815, 771..803		

Seq. No.	52152	Seq. ID	OJ990626_32.0419.C37
Gene No.	110315	Strand	-

Start	1461	End	1581
Name	OJ990626_32.0419.C37.o2.gs	Method	GENSCAN
Start	1461	End	1581
GI	none	Score	.5
Exons	1461..1581		

Seq. No.	52153	Seq. ID	OJ990626_32.0419.C38
Gene No.	110316	Strand	+
Start	1923	End	2120
Name	OJ990626_32.0419.C38.o2.np	Method	AAT/NAP
Start	1923	End	2120
GI	7340884	Score	170
Exons	1923..2120		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52153	Seq. ID	OJ990626_32.0419.C38
Gene No.	110317	Strand	-
Start	219	End	1963
Name	OJ990626_32.0419.C38.o1.gs	Method	GENSCAN
Start	219	End	1119
GI	none	Score	.92
Exons	219..308, 395..543, 985..1119		

Seq. No.	52153	Seq. ID	OJ990626_32.0419.C38
Gene No.	110317	Strand	-
Start	219	End	1963
Name	OJ990626_32.0419.C38.o1.np	Method	AAT/NAP
Start	219	End	1963
GI	7300314	Score	78
Exons	219..314, 395..547, 1935..1963		
GI Descrip.	(AE003719) CG18012 gene product [Drosophila melanogaster]		

Seq. No.	52153	Seq. ID	OJ990626_32.0419.C38
Gene No.	110317	Strand	-
Start	219	End	1963
Name	OJ990626_32.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	440	End	1468
GI	none	Score	98
Exons	440..544, 447..545, 448..555, 488..547, 489..557, 984..1115, 985..1119, 985..1119, 986..1120, 1199..1258, 1202..1258, 1203..1259, 1204..1260, 1421..1468, 1432..1467		

Seq. No.	52154	Seq. ID	OJ990626_32.0419.C39
Gene No.	110318	Strand	+
Start	212	End	498
Name	OJ990626_32.0419.C39.o1.gp	Method	AAT/GAP
Start	212	End	498
GI	61605_1.R1084	Score	431
Exons	212..498		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52155	Seq. ID	OJ990626_32.0419.C40
Gene No.	110319	Strand	+
Start	808	End	1484
Name	OJ990626_32.0419.C40.o1.gs	Method	GENSCAN

Start	808	End	1484
GI	none	Score	.89
Exons	808..889, 948..1032, 1346..1484		

Seq. No.	52155	Seq. ID	OJ990626_32.0419.C40
Gene No.	110320	Strand	+
Start	1981	End	3189
Name	OJ990626_32.0419.C40.o2.gs	Method	GENSCAN
Start	1981	End	3189
GI	none	Score	.58
Exons	1981..2413, 2418..2729, 3176..3189		

Seq. No.	52155	Seq. ID	OJ990626_32.0419.C40
Gene No.	110321	Strand	-
Start	620	End	6734
Name	OJ990626_32.0419.C40.o1.np	Method	AAT/NAP
Start	620	End	6734
GI	6063554	Score	327
Exons	620..793, 1427..1455, 2133..2350, 6688..6734		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52155	Seq. ID	OJ990626_32.0419.C40
Gene No.	110321	Strand	-
Start	620	End	6734
Name	OJ990626_32.0419.C40.o3.gs	Method	GENSCAN
Start	4766	End	4974
GI	none	Score	.59
Exons	4766..4855, 4900..4974		

Seq. No.	52156	Seq. ID	OJ990626_32.0419.C41
Gene No.	110322	Strand	+
Start	49	End	1956
Name	OJ990626_32.0419.C41.o1.gs	Method	GENSCAN
Start	49	End	1951
GI	none	Score	.64
Exons	49..1951		

Seq. No.	52156	Seq. ID	OJ990626_32.0419.C41
Gene No.	110322	Strand	+
Start	49	End	1956
Name	OJ990626_32.0419.C41.o1.np	Method	AAT/NAP
Start	64	End	1956
GI	4038037	Score	1236
Exons	64..1956		
GI Descrip.	(AC005936) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52156	Seq. ID	OJ990626_32.0419.C41
Gene No.	110322	Strand	+
Start	49	End	1956
Name	OJ990626_32.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	406	End	1905
GI	none	Score	60
Exons	406..519, 421..837, 450..713, 453..833, 517..951, 525..923, 631..1059, 654..1058, 727..1119, 759..1130, 832..1254, 840..1181, 1042..1467, 1059..1463, 1147..1572, 1221..1568,		

1252..1674, 1357..1779, 1377..1709, 1672..1905

Seq. No.	52156	Seq. ID	OJ990626_32.0419.C41
Gene No.	110322	Strand	+
Start	49	End	1956
Name	OJ990626_32.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	406	End	1914
GI	none	Score	326
Exons	406..1080, 453..926, 453..599, 453..794, 454..807, 454..678, 463..645, 559..1413, 571..717, 675..1082, 676..1512, 756..1199, 757..1539, 781..960, 877..1647, 1060..1908, 1204..1914, 1240..1392, 1279..1911, 1311..1448, 1317..1394, 1462..1719		

Seq. No.	52156	Seq. ID	OJ990626_32.0419.C41
Gene No.	110322	Strand	+
Start	49	End	1956
Name	OJ990626_32.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	418	End	1911
GI	none	Score	173
Exons	418..702, 447..593, 453..809, 454..807, 454..621, 505..732, 558..908, 559..909, 610..843, 667..1014, 720..920, 721..936, 765..908, 771..923, 772..1125, 832..1041, 877..1224, 916..1119, 931..1044, 981..1046, 981..1124, 982..1350, 1053..1148, 1078..1434, 1084..1356, 1134..1436, 1144..1233, 1192..1539, 1279..1647, 1333..1548, 1345..1752, 1347..1589, 1398..1643, 1441..1683, 1498..1848, 1501..1824, 1561..1788, 1591..1911, 1690..1893		

Seq. No.	52157	Seq. ID	OJ990626_32.0419.C49
Gene No.	110323	Strand	+
Start	89	End	411
Name	OJ990626_32.0419.C49.o1.gs	Method	GENSCAN
Start	89	End	411
GI	none	Score	.62
Exons	89..134, 311..411		

Seq. No.	52157	Seq. ID	OJ990626_32.0419.C49
Gene No.	110324	Strand	-
Start	1592	End	2143
Name	OJ990626_32.0419.C49.o2.gs	Method	GENSCAN
Start	1592	End	2143
GI	none	Score	.92
Exons	1592..2143		

Seq. No.	52157	Seq. ID	OJ990626_32.0419.C49
Gene No.	110324	Strand	-
Start	1592	End	2143
Name	OJ990626_32.0419.C49.o1.np	Method	AAT/NAP
Start	1654	End	2128
GI	6635384	Score	129
Exons	1654..1800, 1876..2128		
GI Descrip.	(AF180356) putative protein [Brassica oleracea]		

Seq. No.	52158	Seq. ID	OJ990626_32.0419.C51
Gene No.	110325	Strand	+
Start	1	End	124
Name	OJ990626_32.0419.C51.o1.gp	Method	AAT/GAP

Start	1	End	124
GI	8022_1.R1084	Score	168
Exons	1..124		
GI Descrip.	'5091496/dbj\|AB023482.2\|AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	52158	Seq. ID	OJ990626_32.0419.C51
Gene No.	110326	Strand	+
Start	880	End	1326
Name	OJ990626_32.0419.C51.o1.gs	Method	GENSCAN
Start	880	End	1326
GI	none	Score	.4
Exons	880..1326		

Seq. No.	52158	Seq. ID	OJ990626_32.0419.C51
Gene No.	110327	Strand	-
Start	2563	End	2712
Name	OJ990626_32.0419.C51.o2.gp	Method	AAT/GAP
Start	2563	End	2712
GI	286806	Score	248
Exons	2563..2712		
GI Descrip.	5441872/dbj\|AP000366.1\|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)		

Seq. No.	52158	Seq. ID	OJ990626_32.0419.C51
Gene No.	110328	Strand	-
Start	2978	End	3647
Name	OJ990626_32.0419.C51.o1.np	Method	AAT/NAP
Start	2978	End	3647
GI	7228446	Score	285
Exons	2978..3021, 3261..3647		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	52159	Seq. ID	OJ990626_32.0419.C53
Gene No.	110329	Strand	+
Start	1369	End	1558
Name	OJ990626_32.0419.C53.o1.gs	Method	GENSCAN
Start	1369	End	1558
GI	none	Score	.79
Exons	1369..1558		

Seq. No.	52160	Seq. ID	OJ990626_32.0419.C54
Gene No.	110330	Strand	+
Start	1	End	3751
Name	OJ990626_32.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	3751
GI	5579408	Score	580
Exons	1..192, 1498..1578, 1717..1790, 1874..1949, 2121..2188, 2911..3034, 3391..3468, 3604..3751		
GI Descrip.	(AF164434) putative diacylglycerol acyltransferase [Brassica napus]		

Seq. No.	52160	Seq. ID	OJ990626_32.0419.C54
Gene No.	110330	Strand	+
Start	1	End	3751

Name	OJ990626_32.0419.C54.o1.gs	Method	GENSCAN
Start	73	End	3468
GI	none	Score	.9
Exons	73..192, 1498..1578, 2121..2188, 2911..3034, 3370..3468		

Seq. No.	52160	Seq. ID	OJ990626_32.0419.C54
Gene No.	110330	Strand	+
Start	1	End	3751
Name	OJ990626_32.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	3377	End	3716
GI	none	Score	83
Exons	3377..3466, 3377..3466, 3391..3468, 3394..3471, 3574..3714, 3601..3714, 3603..3716		

Seq. No.	52161	Seq. ID	OJ990626_32.0419.C56
Gene No.	110331	Strand	+
Start	288	End	1368
Name	OJ990626_32.0419.C56.o1.gs	Method	GENSCAN
Start	288	End	1368
GI	none	Score	.46
Exons	288..351, 624..693, 832..1011, 1238..1368		

Seq. No.	52161	Seq. ID	OJ990626_32.0419.C56
Gene No.	110332	Strand	-
Start	1	End	243
Name	OJ990626_32.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	243
GI	7339719	Score	65
Exons	1..243		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52162	Seq. ID	OJ990626_32.0419.C69
Gene No.	110333	Strand	-
Start	1	End	647
Name	OJ990626_32.0419.C69.o1.np	Method	AAT/NAP
Start	1	End	647
GI	2498930	Score	759
Exons	1..416, 584..647		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi\|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	52163	Seq. ID	OJ990426_31.0419.C5
Gene No.	110334	Strand	-
Start	589	End	1653
Name	OJ990426_31.0419.C5.o1.gs	Method	GENSCAN
Start	589	End	1653
GI	none	Score	.99
Exons	589..1653		

Seq. No.	52163	Seq. ID	OJ990426_31.0419.C5
Gene No.	110334	Strand	-
Start	589	End	1653
Name	OJ990426_31.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	751	End	1290
GI	none	Score	653
Exons	751..1287, 752..1288, 754..1290, 1058..1288		

Seq. No.	52164	Seq. ID	OJ990426_31.0419.C6
Gene No.	110335	Strand	+
Start	130	End	374
Name	OJ990426_31.0419.C6.o1.gs	Method	GENSCAN
Start	130	End	374
GI	none	Score	.94
Exons	130..181, 256..374		

Seq. No.	52164	Seq. ID	OJ990426_31.0419.C6
Gene No.	110336	Strand	-
Start	955	End	1912
Name	OJ990426_31.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	156	End	404
GI	none	Score	194
Exons	156..329, 158..400, 158..403, 204..404		

Seq. No.	52164	Seq. ID	OJ990426_31.0419.C6
Gene No.	110336	Strand	-
Start	955	End	1912
Name	OJ990426_31.0419.C6.o2.gs	Method	GENSCAN
Start	955	End	1912
GI	none	Score	.84
Exons	955..986, 1180..1912		

Seq. No.	52165	Seq. ID	OJ990426_31.0419.C7
Gene No.	110337	Strand	-
Start	35	End	230
Name	OJ990426_31.0419.C7.o1.gs	Method	GENSCAN
Start	35	End	230
GI	none	Score	.54
Exons	35..230		

Seq. No.	52165	Seq. ID	OJ990426_31.0419.C7
Gene No.	110338	Strand	
Start	224	End	655
Name	OJ990426_31.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	224	End	655
GI	none	Score	142
Exons	224..370, 383..655		

Seq. No.	52166	Seq. ID	OJ990426_31.0419.C8
Gene No.	110339	Strand	-
Start	1	End	3214
Name	OJ990426_31.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	3214
GI	6907042	Score	436
Exons	1..264, 639..1355, 1936..2243, 3184..3214		
GI Descrip.	(AF193556) sacsin [Homo sapiens]		

Seq. No.	52166	Seq. ID	OJ990426_31.0419.C8
Gene No.	110339	Strand	-
Start	1	End	3214
Name	OJ990426_31.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	55	End	252
GI	none	Score	84
Exons	55..240, 55..252, 74..247		

Seq. No.	52166	Seq. ID	OJ990426_31.0419.C8
Gene No.	110339	Strand	-
Start	1	End	3214
Name	OJ990426_31.0419.C8.o1.gs	Method	GENSCAN
Start	126	End	2798
GI	none	Score	.59
Exons	126..218, 871..916, 1232..1355, 1936..2295, 2716..2798		

Seq. No.	52167	Seq. ID	OJ990426_31.0419.C9
Gene No.	110340	Strand	+
Start	1278	End	1847
Name	OJ990426_31.0419.C9.o1.gs	Method	GENSCAN
Start	1278	End	1847
GI	none	Score	.42
Exons	1278..1322, 1671..1847		

Seq. No.	52167	Seq. ID	OJ990426_31.0419.C9
Gene No.	110341	Strand	+
Start	3242	End	6663
Name	OJ990426_31.0419.C9.o2.gs	Method	GENSCAN
Start	3242	End	6663
GI	none	Score	.44
Exons	3242..3315, 4470..4554, 5527..5649, 5744..5793, 5997..6370, 6535..6663		

Seq. No.	52168	Seq. ID	OJ990426_31.0419.C10
Gene No.	110342	Strand	+
Start	235	End	1553
Name	OJ990426_31.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	214	End	618
GI	none	Score	185
Exons	214..462, 227..463, 234..464, 445..588, 464..553, 465..605, 466..618		

Seq. No.	52168	Seq. ID	OJ990426_31.0419.C10
Gene No.	110342	Strand	+
Start	235	End	1553
Name	OJ990426_31.0419.C10.o1.gs	Method	GENSCAN
Start	235	End	1553
GI	none	Score	.71
Exons	235..767, 1153..1257, 1379..1553		

Seq. No.	52168	Seq. ID	OJ990426_31.0419.C10
Gene No.	110342	Strand	+
Start	235	End	1553
Name	OJ990426_31.0419.C10.o1.gp	Method	AAT/GAP
Start	237	End	583
GI	none	Score	399
Exons	237..462, 530..583		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110343	Strand	+
Start	2837	End	7044
Name	OJ990426_31.0419.C11.o2.gs	Method	GENSCAN
Start	2837	End	7044
GI	none	Score	.85
Exons	2837..2914, 3378..3839, 4098..4310, 4399..4599, 5283..5667,		

6121..6663, 6746..7044

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110343	Strand	+
Start	2837	End	7044
Name	OJ990426_31.0419.C11.o1.np	Method	AAT/NAP
Start	3630	End	7041
GI	4972236	Score	1413
Exons	3630..3839, 4098..4310, 4399..4599, 5283..5667, 6121..6696, 6746..7041		
GI Descrip.	(AJ006349) endo-beta-1,4-glucanase [Fragaria x ananassa]		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110344	Strand	-
Start	1579	End	2323
Name	OJ990426_31.0419.C11.o1.gs	Method	GENSCAN
Start	1579	End	2323
GI	none	Score	.85
Exons	1579..1794, 1841..1880, 2268..2323		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	3714	End	4551
GI	none	Score	142
Exons	3714..3842, 3743..3826, 4097..4285, 4098..4313, 4387..4500, 4395..4550, 4401..4424, 4407..4550, 4420..4551		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	4095	End	4602
GI	none	Score	292
Exons	4095..4313, 4097..4312, 4398..4601, 4420..4602		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	4097	End	6343
GI	none	Score	233
Exons	4097..4204, 4098..4313, 4241..4282, 4398..4547, 4420..4602, 5295..5414, 5465..5542, 5466..5549, 5544..5669, 6116..6343, 6117..6314		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	5268	End	5489
GI	none	Score	185
Exons	5268..5321, 5279..5488, 5295..5489, 5412..5489		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	

Start	3714	End	7053
Name	OJ990426_31.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	5295	End	7053
GI	none	Score	236
Exons	5295..5549, 5447..5542, 5544..5669, 6116..6391, 6117..6596, 6443..6589, 6742..6915, 6912..7052, 6913..7053		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	5490	End	6605
GI	none	Score	62
Exons	5490..5540, 6153..6206, 6257..6415, 6258..6386, 6435..6605, 6446..6595		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	6153	End	6563
GI	none	Score	51
Exons	6153..6206, 6254..6385, 6258..6386, 6432..6563, 6449..6562		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	6348	End	6596
GI	none	Score	212
Exons	6348..6596, 6486..6596		

Seq. No.	52169	Seq. ID	OJ990426_31.0419.C11
Gene No.	110345	Strand	
Start	3714	End	7053
Name	OJ990426_31.0419.C11.o3.tc	Method	TBLASTX:Cress
Start	6748	End	7032
GI	none	Score	129
Exons	6748..6906, 6913..7032		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110346	Strand	+
Start	1302	End	3064
Name	OJ990426_31.0419.C12.o1.gs	Method	GENSCAN
Start	1302	End	3064
GI	none	Score	.8
Exons	1302..1502, 1589..2390, 2463..3064		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110346	Strand	+
Start	1302	End	3064
Name	OJ990426_31.0419.C12.o1.np	Method	AAT/NAP
Start	1302	End	3022
GI	7450208	Score	1615
Exons	1302..1502, 1589..3022		
GI Descrip.	probable amp-binding protein - rape gi\|1903034\|emb\|CAA64328.1\| (X94625) amp-binding protein [Brassica napus]		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	1288	End	1753
GI	none	Score	289
Exons	1288..1335, 1301..1474, 1302..1475, 1442..1504, 1476..1511, 1550..1753, 1589..1741		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	1302	End	1744
GI	none	Score	184
Exons	1302..1478, 1331..1474, 1473..1511, 1588..1731, 1589..1741, 1616..1744		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1326	End	2785
GI	none	Score	137
Exons	1326..1469, 1580..1741, 1588..1737, 1847..2425, 1906..2424, 2433..2501, 2527..2625, 2528..2632, 2638..2784, 2639..2785		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	1865	End	2413
GI	none	Score	394
Exons	1865..2254, 1894..2256, 2269..2412, 2270..2413		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	1936	End	3019
GI	none	Score	494
Exons	1936..2424, 1949..2425, 2433..2546, 2528..2632, 2638..2826, 2639..2797, 2798..2857, 2941..3015, 2951..3019		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	1951	End	2122
GI	none	Score	296
Exons	1951..2121, 1952..2122		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o3.tm	Method	TBLASTX:Maize

Start	2530	End	3025
GI	none	Score	81
Exons	2530..2625, 2531..2641, 2591..2857, 2629..2856, 2903..2947, 2947..3024, 2957..3025		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o4.ts	Method	TBLASTX:Soybean
Start	2786	End	3031
GI	none	Score	121
Exons	2786..2860, 2821..2853, 2897..3031, 2905..3021		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o2.np	Method	AAT/NAP
Start	3900	End	6311
GI	5733874	Score	1001
Exons	3900..4373, 5205..5368, 5489..5586, 5693..5827, 6074..6311		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o2.gs	Method	GENSCAN
Start	4016	End	6263
GI	none	Score	.67
Exons	4016..4373, 5205..5368, 5489..5586, 5693..5827, 6074..6263		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o5.tm	Method	TBLASTX:Maize
Start	4069	End	5257
GI	none	Score	262
Exons	4069..4287, 4070..4288, 4301..4375, 4303..4374, 5201..5257		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o3.ts	Method	TBLASTX:Soybean
Start	4096	End	6266
GI	none	Score	222
Exons	4096..4287, 4100..4288, 4301..4375, 4303..4374, 5191..5340, 5201..5260, 5279..5341, 6177..6266		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o3.tc	Method	TBLASTX:Cress
Start	4207	End	5587
GI	none	Score	106
Exons	4207..4287, 4208..4291, 4301..4375, 4303..4374, 5167..5262, 5201..5263, 5282..5374, 5284..5367, 5479..5583, 5480..5587, 5480..5587		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o4.tm	Method	TBLASTX:Maize
Start	5261	End	6266
GI	none	Score	154
Exons	5261..5395, 5278..5394, 5471..5587, 5491..5583, 5691..5843, 5696..5845, 6071..6265, 6072..6266		

Seq. No.	52170	Seq. ID	OJ990426_31.0419.C12
Gene No.	110347	Strand	+
Start	4016	End	6311
Name	OJ990426_31.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	5342	End	6172
GI	none	Score	44
Exons	5342..5374, 5479..5583, 5480..5587, 5691..5843, 5696..5842, 5697..5894, 6071..6172, 6072..6170		

Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110348	Strand	+
Start	1	End	726
Name	OJ990426_31.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	714
GI	6686396	Score	913
Exons	1..714		
GI Descrip.	(AC007234) F1E22.10 [Arabidopsis thaliana]		

Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110348	Strand	+
Start	1	End	726
Name	OJ990426_31.0419.C13.o1.gs	Method	GENSCAN
Start	82	End	726
GI	none	Score	1
Exons	82..726		

Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110349	Strand	+
Start	2358	End	6952
Name	OJ990426_31.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	722
GI	none	Score	913
Exons	1..705, 1..243, 3..695, 559..705, 588..722		

Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110349	Strand	+
Start	2358	End	6952
Name	OJ990426_31.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	1	End	705
GI	none	Score	374
Exons	1..264, 3..263, 265..408, 267..410, 420..695, 421..705		

Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110349	Strand	+
Start	2358	End	6952
Name	OJ990426_31.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	40	End	666
GI	none	Score	281

Exons	40..243, 42..239, 246..374, 247..372, 366..614, 367..666		
Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110349	Strand	+
Start	2358	End	6952
Name	OJ990426_31.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	292	End	713
GI	none	Score	515
Exons	292..705, 297..713		
Seq. No.	52171	Seq. ID	OJ990426_31.0419.C13
Gene No.	110349	Strand	+
Start	2358	End	6952
Name	OJ990426_31.0419.C13.o2.gs	Method	GENSCAN
Start	2358	End	6952
GI	none	Score	.53
Exons	2358..2475, 3251..3349, 4039..4313, 5719..5842, 6891..6952		
Seq. No.	52172	Seq. ID	OJ990426_31.0419.C14
Gene No.	110350	Strand	-
Start	304	End	690
Name	OJ990426_31.0419.C14.o1.gs	Method	GENSCAN
Start	304	End	690
GI	none	Score	.79
Exons	304..690		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110351	Strand	+
Start	257	End	983
Name	OJ990426_31.0419.C15.o1.gs	Method	GENSCAN
Start	257	End	983
GI	none	Score	.57
Exons	257..298, 927..983		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110352	Strand	+
Start	11611	End	15352
Name	OJ990426_31.0419.C15.o4.gs	Method	GENSCAN
Start	11611	End	15352
GI	none	Score	.9
Exons	11611..11673, 11764..12936, 14605..14722, 15051..15352		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110352	Strand	+
Start	11611	End	15352
Name	OJ990426_31.0419.C15.o2.np	Method	AAT/NAP
Start	11803	End	13015
GI	5734789	Score	761
Exons	11803..13015		
GI Descrip.	(AC007980) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110353	Strand	-
Start	2266	End	2751
Name	OJ990426_31.0419.C15.o1.gp	Method	AAT/GAP
Start	2266	End	2751
GI	uC-osroM202035e08b1	Score	633

Exons	2266..2391, 2515..2751		
GI Descrip.	'5103809/gb\|AAD39639.1\|AC007591_4 7.0e-45 (AC007591) Similar to gb_AF099053 phosphatidylserine synthase-2 from Mus musculus. EST gb_N96271 comes from this gene. [Arabidopsis thaliana]'		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110353	Strand	-
Start	2266	End	2751
Name	OJ990426_31.0419.C15.o2.gp	Method	AAT/GAP
Start	2340	End	2749
GI	uC-osroM202035e08b1	Score	503
Exons	2340..2391, 2515..2749		
GI Descrip.	'5103809/gb\|AAD39639.1\|AC007591_4 7.0e-45 (AC007591) Similar to gb_AF099053 phosphatidylserine synthase-2 from Mus musculus. EST gb_N96271 comes from this gene. [Arabidopsis thaliana]'		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110354	Strand	-
Start	5694	End	10310
Name	OJ990426_31.0419.C15.o3.gp	Method	AAT/GAP
Start	5694	End	7952
GI	20816_1.R1084	Score	1596
Exons	5694..5818, 6004..6185, 6287..6361, 6460..6596, 6682..6841, 6920..7015, 7096..7250, 7900..7952		
GI Descrip.	'2293332 4.0e-28 (AF011338) unknown [Dictyostelium discoideum]'		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110354	Strand	-
Start	5694	End	10310
Name	OJ990426_31.0419.C15.o1.np	Method	AAT/NAP
Start	6254	End	6757
GI	3252825	Score	195
Exons	6254..6361, 6460..6606, 6686..6757		
GI Descrip.	(AC004382) Unknown gene product [Homo sapiens]		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110354	Strand	-
Start	5694	End	10310
Name	OJ990426_31.0419.C15.o3.gs	Method	GENSCAN
Start	6668	End	10310
GI	none	Score	.47
Exons	6668..6790, 6920..7015, 7096..7250, 7900..8057, 8815..8943, 9842..9980, 10208..10310		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o3.ts	Method	TBLASTX:Soybean
Start	2273	End	2747
GI	none	Score	87
Exons	2273..2389, 2292..2408, 2322..2390, 2516..2578, 2606..2746, 2628..2747		
Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o2.tm	Method	TBLASTX:Maize

Start	2294	End	2751
GI	none	Score	113
Exons	2294..2389, 2295..2432, 2295..2396, 2496..2633, 2513..2623, 2603..2749, 2619..2750, 2628..2750, 2635..2751		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	6145	End	8026
GI	none	Score	55
Exons	6145..6180, 6145..6174, 6147..6188, 6275..6361, 6285..6359, 6285..6362, 6286..6360, 6451..6597, 6459..6596, 6461..6598, 6679..6843, 6683..6889, 6761..6856, 6912..7016, 6921..6977, 6923..7021, 7114..7251, 7115..7315, 7898..7999, 7907..8026		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	6147	End	7245
GI	none	Score	42
Exons	6147..6188, 6148..6183, 6275..6361, 6285..6359, 6451..6603, 6459..6599, 6461..6601, 6676..6777, 6680..6766, 6761..6841, 7111..7245		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	11821	End	12042
GI	none	Score	201
Exons	11821..12042, 11856..12041		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	11865	End	12417
GI	none	Score	270
Exons	11865..12164, 11866..12180, 12267..12416, 12310..12417		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	12027	End	12380
GI	none	Score	226
Exons	12027..12167, 12028..12186, 12180..12275, 12181..12279, 12267..12380, 12268..12378		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o4.gp	Method	AAT/GAP
Start	16148	End	16591
GI	32010_1.R1084	Score	861

Exons	16148..16591		
GI Descrip.	'4406761/gb\|AAD20072\| 2.0e-42 (AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]'		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o4.tm	Method	TBLASTX:Maize
Start	16452	End	16591
GI	none	Score	109
Exons	16452..16577, 16454..16591, 16455..16589, 16457..16591		

Seq. No.	52173	Seq. ID	OJ990426_31.0419.C15
Gene No.	110355	Strand	-
Start	16148	End	16591
Name	OJ990426_31.0419.C15.o3.np	Method	AAT/NAP
Start	16463	End	16591
GI	4406761	Score	168
Exons	16463..16591		
GI Descrip.	(AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110356	Strand	-
Start	3937	End	4739
Name	OJ990426_31.0419.C17.o1.np	Method	AAT/NAP
Start	3126	End	4727
GI	4514716	Score	332
Exons	3126..3227, 4072..4283, 4543..4727		
GI Descrip.	(AB017533) EPc [Nicotiana tabacum]		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110356	Strand	-
Start	3937	End	4739
Name	OJ990426_31.0419.C17.o2.gs	Method	GENSCAN
Start	3937	End	4739
GI	none	Score	.8
Exons	3937..4283, 4477..4602, 4640..4739		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110356	Strand	-
Start	3937	End	4739
Name	OJ990426_31.0419.C17.o1.gp	Method	AAT/GAP
Start	3970	End	4694
GI	95234_1.R1084	Score	713
Exons	3970..4283, 4543..4694		
GI Descrip.	'4514716/dbj\|BAA75495.1\| 1.0e-16 (AB017533) EPc [Nicotiana tabacum]'		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110357	Strand	-
Start	7011	End	7712
Name	OJ990426_31.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	4061	End	4656
GI	none	Score	202
Exons	4061..4114, 4091..4282, 4093..4281, 4543..4617, 4544..4636, 4615..4656		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110357	Strand	-
Start	7011	End	7712
Name	OJ990426_31.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	4085	End	4736
GI	none	Score	222
Exons	4085..4315, 4087..4281, 4522..4623, 4543..4614, 4544..4636, 4545..4616, 4614..4655, 4616..4663, 4617..4736		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110357	Strand	-
Start	7011	End	7712
Name	OJ990426_31.0419.C17.o2.gp	Method	AAT/GAP
Start	6850	End	7332
GI	none	Score	934
Exons	6850..7332		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110357	Strand	-
Start	7011	End	7712
Name	OJ990426_31.0419.C17.o4.gs	Method	GENSCAN
Start	7011	End	7463
GI	none	Score	.92
Exons	7011..7463		

Seq. No.	52174	Seq. ID	OJ990426_31.0419.C17
Gene No.	110357	Strand	-
Start	7011	End	7712
Name	OJ990426_31.0419.C17.o2.np	Method	AAT/NAP
Start	7111	End	7712
GI	3914142	Score	97
Exons	7111..7307, 7338..7712		
GI Descrip.	EARLY NODULIN 20 PRECURSOR (N-20) gi\|1771351\|emb\|CAA67830\| (X99467) ENOD20 [Medicago truncatula]		

Seq. No.	52175	Seq. ID	OJ990426_31.0419.C18
Gene No.	110358	Strand	+
Start	53	End	2298
Name	OJ990426_31.0419.C18.o1.gs	Method	GENSCAN
Start	53	End	2298
GI	none	Score	.41
Exons	53..232, 277..353, 1137..1247, 1896..1918, 2077..2109, 2172..2298		

Seq. No.	52176	Seq. ID	OJ990426_31.0419.C19
Gene No.	110359	Strand	+
Start	1587	End	2007
Name	OJ990426_31.0419.C19.o1.gp	Method	AAT/GAP
Start	1587	End	2007
GI	2428128	Score	705
Exons	1587..2007		

Seq. No.	52177	Seq. ID	OJ990426_31.0419.C20
Gene No.	110360	Strand	-
Start	2426	End	2485
Name	OJ990426_31.0419.C20.o1.gs	Method	GENSCAN

Start	2426	End	2485
GI	none	Score	.82
Exons	2426..2485		

Seq. No.	52178	Seq. ID	OJ990426_31.0419.C23
Gene No.	110361	Strand	-
Start	326	End	767
Name	OJ990426_31.0419.C23.o1.np	Method	AAT/NAP
Start	326	End	767
GI	6069646	Score	242
Exons	326..767		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52178	Seq. ID	OJ990426_31.0419.C23
Gene No.	110361	Strand	-
Start	326	End	767
Name	OJ990426_31.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	428	End	766
GI	none	Score	46
Exons	428..541, 428..544, 560..760,	566..766,	567..761

Seq. No.	52178	Seq. ID	OJ990426_31.0419.C23
Gene No.	110361	Strand	-
Start	326	End	767
Name	OJ990426_31.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	428	End	736
GI	none	Score	51
Exons	428..553, 428..562, 536..595,	608..736	

Seq. No.	52179	Seq. ID	OJ990426_31.0419.C28
Gene No.	110362	Strand	-
Start	238	End	386
Name	OJ990426_31.0419.C28.o1.gs	Method	GENSCAN
Start	238	End	386
GI	none	Score	.57
Exons	238..386		

Seq. No.	52180	Seq. ID	OJ990426_31.0419.C29
Gene No.	110363	Strand	+
Start	1121	End	4431
Name	OJ990426_31.0419.C29.o1.gs	Method	GENSCAN
Start	1121	End	4287
GI	none	Score	.5
Exons	1121..1333, 1825..1915, 1940..2031, 2165..2348, 2479..2580, 2600..2801, 4225..4287		

Seq. No.	52180	Seq. ID	OJ990426_31.0419.C29
Gene No.	110363	Strand	+
Start	1121	End	4431
Name	OJ990426_31.0419.C29.o1.gp	Method	AAT/GAP
Start	1619	End	1981
GI	700618	Score	699
Exons	1619..1981		

Seq. No.	52180	Seq. ID	OJ990426_31.0419.C29
Gene No.	110363	Strand	+
Start	1121	End	4431
Name	OJ990426_31.0419.C29.o1.np	Method	AAT/NAP
Start	2583	End	4431
GI	4874266	Score	98
Exons	2583..2806, 3276..3380, 4236..4431		
GI Descrip.	(AC007354) T16B5.4 [Arabidopsis thaliana]		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110364	Strand	+
Start	4510	End	8350
Name	OJ990426_31.0419.C30.o2.gs	Method	GENSCAN
Start	4510	End	8350
GI	none	Score	.67
Exons	4510..4617, 4722..4901, 7196..7250, 8256..8350		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110364	Strand	+
Start	4510	End	8350
Name	OJ990426_31.0419.C30.o1.gp	Method	AAT/GAP
Start	4837	End	7311
GI	none	Score	975
Exons	4837..4901, 5015..5062, 6089..6145, 6234..6334, 6461..6526, 7000..7101, 7196..7311		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o1.np	Method	AAT/NAP
Start	328	End	3720
GI	6561982	Score	1342
Exons	328..2396, 3692..3720		
GI Descrip.	(AL133363) putative protein [Arabidopsis thaliana]		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	343	End	2031
GI	none	Score	149
Exons	343..672, 703..804, 832..1158, 832..990, 836..1159, 874..1242, 916..1077, 1105..1518, 1108..1512, 1219..1443, 1531..1722, 1537..1698, 1537..1704, 1541..1681, 1547..1681, 1555..1614, 1621..1854, 1717..1755, 1726..1941, 1789..2001, 1891..1998, 1900..2031		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	403	End	984
GI	none	Score	116
Exons	403..699, 697..801, 778..984		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30

Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o2.ts	Method	TBLASTX:Soybean
Start	418	End	684
GI	none	Score	96
Exons	418..684, 419..682		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	703	End	1959
GI	none	Score	140
Exons	703..1035, 719..988, 1756..1959		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110365	Strand	-
Start	328	End	3720
Name	OJ990426_31.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	832	End	2016
GI	none	Score	60
Exons	832..1062, 892..1029, 979..1365, 980..1075, 1282..1521, 1316..1543, 1546..1665, 1546..1680, 1597..1698, 1729..1986, 1903..2016, 1908..1988		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110366	Strand	
Start	5012	End	7294
Name	OJ990426_31.0419.C30.o3.tm	Method	TBLASTX:Maize
Start	5012	End	6543
GI	none	Score	67
Exons	5012..5065, 6079..6144, 6086..6145, 6228..6296, 6232..6297, 6296..6334, 6301..6336, 6450..6527, 6460..6543, 6460..6528		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110366	Strand	
Start	5012	End	7294
Name	OJ990426_31.0419.C30.o2.tw	Method	TBLASTX:Wheat
Start	6076	End	7100
GI	none	Score	84
Exons	6076..6144, 6086..6145, 6220..6297, 6228..6296, 6232..6297, 6296..6334, 6299..6334, 6300..6335, 6300..6335, 6442..6528, 6447..6527, 6449..6529, 6460..6534, 6997..7098, 6998..7099, 6999..7100, 6999..7100		

Seq. No.	52181	Seq. ID	OJ990426_31.0419.C30
Gene No.	110366	Strand	
Start	5012	End	7294
Name	OJ990426_31.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	7000	End	7294
GI	none	Score	163
Exons	7000..7101, 7002..7112, 7005..7130, 7195..7290, 7196..7294		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110367	Strand	+
Start	210	End	1720
Name	OJ990426_31.0419.C31.o1.np	Method	AAT/NAP

Start	210	End	1319
GI	7388552	Score	498
Exons	210..334, 455..854, 925..1029, 1165..1319		
GI Descrip.	HYPOTHETICAL 45.9 KD PROTEIN T28I24.6 gi\|4337192\|gb\|AAD18106.1\| (AC006403) unknown protein [Arabidopsis thaliana]		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110367	Strand	+
Start	210	End	1720
Name	OJ990426_31.0419.C31.o1.gs	Method	GENSCAN
Start	225	End	1340
GI	none	Score	.9
Exons	225..334, 455..854, 925..1340		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110367	Strand	+
Start	210	End	1720
Name	OJ990426_31.0419.C31.o1.gp	Method	AAT/GAP
Start	1050	End	1720
GI	none	Score	1314
Exons	1050..1720		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	224	End	1298
GI	none	Score	168
Exons	224..334, 225..335, 225..332, 227..334, 445..588, 446..589, 449..601, 453..590, 574..618, 575..859, 615..869, 914..1021, 919..1062, 924..1067, 924..1025, 998..1153, 1005..1154, 1245..1298		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	227	End	838
GI	none	Score	152
Exons	227..334, 227..334, 446..610, 454..588, 740..838		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	731	End	1016
GI	none	Score	171
Exons	731..904, 755..880, 905..1009, 914..1000, 924..1010, 924..1016		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o2.gp	Method	AAT/GAP
Start	2692	End	2773
GI	none	Score	77
Exons	2692..2773		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o2.gs	Method	GENSCAN
Start	3036	End	3604
GI	none	Score	.84
Exons	3036..3118, 3508..3604		

Seq. No.	52182	Seq. ID	OJ990426_31.0419.C31
Gene No.	110368	Strand	-
Start	3036	End	4337
Name	OJ990426_31.0419.C31.o2.np	Method	AAT/NAP
Start	3275	End	4337
GI	4874266	Score	63
Exons	3275..3328, 3508..3659, 4318..4337		
GI Descrip.	(AC007354) T16B5.4 [Arabidopsis thaliana]		

Seq. No.	52183	Seq. ID	OJ990426_31.0419.C33
Gene No.	110369	Strand	+
Start	1	End	793
Name	OJ990426_31.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	793
GI	731058	Score	148
Exons	1..77, 567..793		
GI Descrip.	URACIL-DNA GLYCOSYLASE (UDG) gi\|2118057\|pir\|\|S39712 probable uracil-DNA glycosylase - Bacillus subtilis gi\|580875\|emb\|CAA51613\| (X73124) ipa-57d [Bacillus subtilis] gi\|2636332\|emb\|CAB15823\| (Z99123) uracil-DNA glycosylase [Bacillus subtilis]		

Seq. No.	52183	Seq. ID	OJ990426_31.0419.C33
Gene No.	110369	Strand	+
Start	1	End	793
Name	OJ990426_31.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	559	End	697
GI	none	Score	216
Exons	559..693, 566..697, 567..695		

Seq. No.	52183	Seq. ID	OJ990426_31.0419.C33
Gene No.	110369	Strand	+
Start	1	End	793
Name	OJ990426_31.0419.C33.o1.gs	Method	GENSCAN
Start	570	End	728
GI	none	Score	.58
Exons	570..728		

Seq. No.	52184	Seq. ID	OJ990426_31.0419.C34
Gene No.	110370	Strand	+
Start	1	End	1907
Name	OJ990426_31.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	1907
GI	2392165	Score	221
Exons	1..87, 813..947, 1073..1156, 1841..1907		
GI Descrip.	Human Uracil-Dna Glycosylase gi\|4558333\|pdb\|1UGH\|E Chain E, Crystal Structure Of Human Uracil-Dna Glycosylase In Complex With A Protein Inhibitor: Protein Mimicry Of Dna gi\|5107690\|pdb\|1SSP\|E Chain E, Wild-Type Uracil-Dna Glycosylase		

Bound To Uracil-Containing Dna

Seq. No.	52184	Seq. ID	OJ990426_31.0419.C34
Gene No.	110371	Strand	+
Start	2485	End	4737
Name	OJ990426_31.0419.C34.o1.gs	Method	GENSCAN
Start	2485	End	4737
GI	none	Score	.57
Exons	2485..2569, 2693..2791, 2972..3101, 3795..3826, 3858..3977, 4625..4737		

Seq. No.	52184	Seq. ID	OJ990426_31.0419.C34
Gene No.	110372	Strand	-
Start	5901	End	6323
Name	OJ990426_31.0419.C34.o2.gs	Method	GENSCAN
Start	5901	End	6323
GI	none	Score	.62
Exons	5901..5954, 6108..6323		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	573
GI	5689236	Score	528
Exons	1..151, 256..573		
GI Descrip.	(AB024291) ZmRR2 [Zea mays] gi\|6009897\|dbj\|BAA85113.1\| (AB031012) response regulator 2 [Zea mays]		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	2	End	469
GI	none	Score	198
Exons	2..157, 3..152, 254..469, 256..468		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	14	End	474
GI	none	Score	131
Exons	14..157, 27..152, 254..334, 256..333, 340..474, 341..460		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	14	End	325
GI	none	Score	120
Exons	14..157, 27..152, 254..325, 256..324		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.gs	Method	GENSCAN

Start	41	End	465
GI	none	Score	.75
Exons	41..151, 256..465		

Seq. No.	52185	Seq. ID	OJ990426_31.0419.C35
Gene No.	110373	Strand	-
Start	1	End	707
Name	OJ990426_31.0419.C35.o1.gp	Method	AAT/GAP
Start	115	End	707
GI	30154_1.R1084	Score	908
Exons	115..151, 256..707		
GI Descrip.	'5689236/dbj\|BAA82873.1\| 2.0e-34 (AB024291) ZmRR2 [Zea mays] >gi_6009897_dbj_BAA85113.1_ (AB031012) response regulator 2 [Zea mays]'		

Seq. No.	52186	Seq. ID	OJ990426_31.0419.C36
Gene No.	110374	Strand	+
Start	71	End	322
Name	OJ990426_31.0419.C36.o1.gs	Method	GENSCAN
Start	71	End	322
GI	none	Score	.9
Exons	71..322		

Seq. No.	52186	Seq. ID	OJ990426_31.0419.C36
Gene No.	110375	Strand	-
Start	6144	End	8387
Name	OJ990426_31.0419.C36.o3.gs	Method	GENSCAN
Start	6144	End	8387
GI	none	Score	.59
Exons	6144..6334, 6786..7060, 8251..8387		

Seq. No.	52187	Seq. ID	OJ990426_31.0419.C38
Gene No.	110376	Strand	+
Start	139	End	214
Name	OJ990426_31.0419.C38.o1.gs	Method	GENSCAN
Start	139	End	214
GI	none	Score	.84
Exons	139..214		

Seq. No.	52188	Seq. ID	OJ990426_31.0419.C39
Gene No.	110377	Strand	+
Start	44	End	228
Name	OJ990426_31.0419.C39.o1.gs	Method	GENSCAN
Start	44	End	228
GI	none	Score	.76
Exons	44..228		

Seq. No.	52189	Seq. ID	OJ990426_31.0419.C41
Gene No.	110378	Strand	+
Start	1	End	820
Name	OJ990426_31.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	820
GI	3980411	Score	203
Exons	1..157, 229..336, 541..820		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	52189	Seq. ID	OJ990426_31.0419.C41

Gene No.	110378	Strand	+
Start	1	End	820
Name	OJ990426_31.0419.C41.o1.gs	Method	GENSCAN
Start	62	End	262
GI	none	Score	.8
Exons	62..262		

Seq. No.	52190	Seq. ID	OJ990426_31.0419.C42
Gene No.	110379	Strand	+
Start	49	End	155
Name	OJ990426_31.0419.C42.o1.gs	Method	GENSCAN
Start	49	End	155
GI	none	Score	.61
Exons	49..155		

Seq. No.	52191	Seq. ID	OJ990616_10.0419.C1
Gene No.	110380	Strand	+
Start	1	End	1117
Name	OJ990616_10.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1117
GI	6996428	Score	224
Exons	1..213, 638..792, 870..1117		
GI Descrip.	(AL035661) dJ568C11.2 (novel protein similar to worm, plant and fly proteins) [Homo sapiens]		

Seq. No.	52191	Seq. ID	OJ990616_10.0419.C1
Gene No.	110380	Strand	+
Start	1	End	1117
Name	OJ990616_10.0419.C1.o1.gp	Method	AAT/GAP
Start	640	End	1117
GI	3776_1.R1084	Score	706
Exons	640..770, 860..1117		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		

Seq. No.	52191	Seq. ID	OJ990616_10.0419.C1
Gene No.	110381	Strand	-
Start	9	End	1114
Name	OJ990616_10.0419.C1.o1.gs	Method	GENSCAN
Start	9	End	915
GI	none	Score	.78
Exons	9..237, 837..915		

Seq. No.	52191	Seq. ID	OJ990616_10.0419.C1
Gene No.	110381	Strand	-
Start	9	End	1114
Name	OJ990616_10.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	15	End	1114
GI	none	Score	125
Exons	15..158, 158..214, 632..757, 636..779, 641..763, 839..1114, 895..1113, 965..1114		

Seq. No.	52192	Seq. ID	OJ990616_10.0419.C2
Gene No.	110382	Strand	-
Start	1	End	219
Name	OJ990616_10.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	219

GI	3776_1.R1084	Score	426
Exons	1..219		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		
Seq. No.	52192	Seq. ID	OJ990616_10.0419.C2
Gene No.	110383	Strand	-
Start	418	End	477
Name	OJ990616_10.0419.C2.o1.gs	Method	GENSCAN
Start	418	End	477
GI	none	Score	.4
Exons	418..477		
Seq. No.	52193	Seq. ID	OJ990616_10.0419.C4
Gene No.	110384	Strand	-
Start	87	End	1367
Name	OJ990616_10.0419.C4.o1.gs	Method	GENSCAN
Start	87	End	1367
GI	none	Score	.74
Exons	87..222, 985..1077, 1083..1367		
Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6
Gene No.	110385	Strand	+
Start	2132	End	3079
Name	OJ990616_10.0419.C6.o1.gp	Method	AAT/GAP
Start	2132	End	2358
GI	2801199	Score	367
Exons	2132..2358		
Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6
Gene No.	110385	Strand	+
Start	2132	End	3079
Name	OJ990616_10.0419.C6.o1.gs	Method	GENSCAN
Start	2206	End	3079
GI	none	Score	.98
Exons	2206..2425, 2508..3079		
Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6
Gene No.	110385	Strand	+
Start	2132	End	3079
Name	OJ990616_10.0419.C6.o1.np	Method	AAT/NAP
Start	2206	End	2993
GI	4895239	Score	479
Exons	2206..2425, 2491..2993		
GI Descrip.	(AC007659) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6
Gene No.	110385	Strand	+
Start	2132	End	3079
Name	OJ990616_10.0419.C6.o2.gp	Method	AAT/GAP
Start	2371	End	2749
GI	24903_1.R1084	Score	714
Exons	2371..2749		
GI Descrip.	'4895239/gb\|AAD32824.1\|AC007659_6 5.0e-10 (AC007659) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6

Gene No.	110386	Strand	-
Start	4430	End	5106
Name	OJ990616_10.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2206	End	2965
GI	none	Score	129
Exons	2206..2316, 2211..2315, 2319..2417, 2368..2421, 2561..2590, 2577..2675, 2649..2684, 2723..2764, 2724..2765, 2837..2965, 2841..2957		

Seq. No.	52194	Seq. ID	OJ990616_10.0419.C6
Gene No.	110386	Strand	-
Start	4430	End	5106
Name	OJ990616_10.0419.C6.o2.gs	Method	GENSCAN
Start	4430	End	5106
GI	none	Score	.59
Exons	4430..4528, 4701..4836, 5039..5106		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110387	Strand	-
Start	1	End	546
Name	OJ990616_10.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	546
GI	7485509	Score	97
Exons	1..41, 374..546		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi\|4678270\|emb\|CAB41178.1\| (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110388	Strand	-
Start	1553	End	2452
Name	OJ990616_10.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	492	End	684
GI	none	Score	226
Exons	492..659, 492..683, 493..684		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110388	Strand	-
Start	1553	End	2452
Name	OJ990616_10.0419.C7.o2.gs	Method	GENSCAN
Start	1553	End	1890
GI	none	Score	.7
Exons	1553..1760, 1787..1890		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110388	Strand	-
Start	1553	End	2452
Name	OJ990616_10.0419.C7.o2.np	Method	AAT/NAP
Start	1682	End	2452
GI	6598622	Score	145
Exons	1682..2018, 2403..2452		
GI Descrip.	(AC006837) unknown protein [Arabidopsis thaliana]		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110388	Strand	-
Start	1553	End	2452
Name	OJ990616_10.0419.C7.o1.ts	Method	TBLASTX:Soybean

Start	1860	End	2006
GI	none	Score	182
Exons	1860..2006		

Seq. No.	52195	Seq. ID	OJ990616_10.0419.C7
Gene No.	110388	Strand	-
Start	1553	End	2452
Name	OJ990616_10.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1860	End	2006
GI	none	Score	119
Exons	1860..2006, 1864..1995		

Seq. No.	52196	Seq. ID	OJ990616_10.0419.C8
Gene No.	110389	Strand	-
Start	356	End	1112
Name	OJ990616_10.0419.C8.o1.np	Method	AAT/NAP
Start	356	End	1112
GI	6730753	Score	552
Exons	356..456, 556..1112		
GI Descrip.	(AC016529) unknown protein [Arabidopsis thaliana]		

Seq. No.	52196	Seq. ID	OJ990616_10.0419.C8
Gene No.	110389	Strand	-
Start	356	End	1112
Name	OJ990616_10.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	358	End	1112
GI	none	Score	158
Exons	358..462, 556..687, 748..987, 756..977, 1035..1112, 1057..1110		

Seq. No.	52196	Seq. ID	OJ990616_10.0419.C8
Gene No.	110389	Strand	-
Start	356	End	1112
Name	OJ990616_10.0419.C8.o1.gs	Method	GENSCAN
Start	361	End	1070
GI	none	Score	.91
Exons	361..456, 556..742, 784..1070		

Seq. No.	52196	Seq. ID	OJ990616_10.0419.C8
Gene No.	110389	Strand	-
Start	356	End	1112
Name	OJ990616_10.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	556	End	1112
GI	none	Score	103
Exons	556..687, 756..977, 757..987, 1035..1112		

Seq. No.	52197	Seq. ID	OJ990616_10.0419.C9
Gene No.	110390	Strand	+
Start	48	End	321
Name	OJ990616_10.0419.C9.o1.gs	Method	GENSCAN
Start	48	End	321
GI	none	Score	.96
Exons	48..321		

Seq. No.	52197	Seq. ID	OJ990616_10.0419.C9
Gene No.	110391	Strand	+
Start	2976	End	3501
Name	OJ990616_10.0419.C9.o1.np	Method	AAT/NAP

Start	2976	End	3501
GI	6539585	Score	124
Exons	2976..3147, 3428..3501		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52197	Seq. ID	OJ990616_10.0419.C9
Gene No.	110392	Strand	-
Start	2773	End	3504
Name	OJ990616_10.0419.C9.o2.gs	Method	GENSCAN
Start	2773	End	3504
GI	none	Score	.84
Exons	2773..2876, 3221..3306, 3404..3504		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.gp	Method	AAT/GAP
Start	330	End	1555
GI	159_1.R1084	Score	1177
Exons	330..449, 538..654, 732..816, 975..1098, 1259..1372, 1470..1555		
GI Descrip.	'3292830/emb\|CAA19820.1\| 1.0e-15 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	342	End	1555
GI	none	Score	104
Exons	342..449, 350..448, 358..462, 358..453, 530..652, 537..638, 538..654, 541..642, 718..816, 729..812, 737..817, 1219..1383, 1261..1371, 1465..1554, 1466..1555		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	351	End	652
GI	none	Score	114
Exons	351..452, 361..462, 530..652, 538..645		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	363	End	1555
GI	none	Score	106
Exons	363..452, 364..453, 514..639, 530..652, 538..639, 1219..1383, 1259..1387, 1273..1371, 1464..1511, 1465..1554, 1466..1555		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.gs	Method	GENSCAN
Start	364	End	1372
GI	none	Score	.95
Exons	364..449, 538..654, 732..816, 975..1098, 1259..1372		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.np	Method	AAT/NAP
Start	364	End	1555
GI	6166140	Score	868
Exons	364..449, 538..654, 732..816, 975..1098, 1259..1372, 1470..1555		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi\|1084457\|pir\|\|S41086 elongation factor 1-beta - Rice gi\|432368\|dbj\|BAA04903\| (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	374	End	761
GI	none	Score	58
Exons	374..448, 381..452, 382..462, 530..652, 532..645, 538..654, 729..761		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1219	End	1555
GI	none	Score	182
Exons	1219..1383, 1270..1371, 1465..1551, 1466..1555		

Seq. No.	52198	Seq. ID	OJ990616_10.0419.C10
Gene No.	110393	Strand	+
Start	330	End	1555
Name	OJ990616_10.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	1294	End	1555
GI	none	Score	55
Exons	1294..1368, 1295..1369, 1297..1383, 1329..1379, 1465..1554, 1466..1555		

Seq. No.	52199	Seq. ID	OJ990616_10.0419.C11
Gene No.	110394	Strand	+
Start	1	End	77
Name	OJ990616_10.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	77
GI	6166140	Score	119
Exons	1..77		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi\|1084457\|pir\|\|S41086 elongation factor 1-beta - Rice gi\|432368\|dbj\|BAA04903\| (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	52199	Seq. ID	OJ990616_10.0419.C11
Gene No.	110395	Strand	+
Start	1	End	726
Name	OJ990616_10.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	726
GI	159_2.R1084	Score	612
Exons	1..78, 472..726		
GI Descrip.	'1084457/pir\|\|S41086 3.0e-44 elongation factor 1-beta - Rice		

>gi_432368_dbj_BAA04903_ (D23674) elongation factor 1 beta [Oryza sativa]'

Seq. No.	52199	Seq. ID	OJ990616_10.0419.C11
Gene No.	110396	Strand	+
Start	3177	End	4709
Name	OJ990616_10.0419.C11.o1.gs	Method	GENSCAN
Start	3177	End	4709
GI	none	Score	.72
Exons	3177..3330, 4323..4709		

Seq. No.	52199	Seq. ID	OJ990616_10.0419.C11
Gene No.	110397	Strand	-
Start	3559	End	4716
Name	OJ990616_10.0419.C11.o2.np	Method	AAT/NAP
Start	3559	End	4716
GI	6730752	Score	186
Exons	3559..3845, 4289..4561, 4622..4716		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52200	Seq. ID	OJ990616_10.0419.C15
Gene No.	110398	Strand	+
Start	1	End	754
Name	OJ990616_10.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	398
GI	6648172	Score	98
Exons	1..398		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	52200	Seq. ID	OJ990616_10.0419.C15
Gene No.	110398	Strand	+
Start	1	End	754
Name	OJ990616_10.0419.C15.o1.gs	Method	GENSCAN
Start	67	End	754
GI	none	Score	.51
Exons	67..210, 665..754		

Seq. No.	52200	Seq. ID	OJ990616_10.0419.C15
Gene No.	110398	Strand	+
Start	1	End	754
Name	OJ990616_10.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	69	End	730
GI	none	Score	61
Exons	69..146, 72..152, 73..153, 153..209, 163..210, 658..729, 662..730		

Seq. No.	52201	Seq. ID	OJ990616_10.0419.C25
Gene No.	110399	Strand	-
Start	53	End	946
Name	OJ990616_10.0419.C25.o1.gp	Method	AAT/GAP
Start	53	End	883
GI	3776_1.R1084	Score	1406
Exons	53..663, 753..883		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		

Seq. No.	52201	Seq. ID	OJ990616_10.0419.C25
Gene No.	110399	Strand	-
Start	53	End	946
Name	OJ990616_10.0419.C25.o1.gs	Method	GENSCAN
Start	361	End	885
GI	none	Score	.75
Exons	361..663, 753..885		

Seq. No.	52201	Seq. ID	OJ990616_10.0419.C25
Gene No.	110399	Strand	-
Start	53	End	946
Name	OJ990616_10.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	398	End	887
GI	none	Score	129
Exons	398..628, 403..684, 744..887, 760..882		

Seq. No.	52201	Seq. ID	OJ990616_10.0419.C25
Gene No.	110399	Strand	-
Start	53	End	946
Name	OJ990616_10.0419.C25.o1.np	Method	AAT/NAP
Start	400	End	946
GI	6664319	Score	143
Exons	400..663, 753..946		
GI Descrip.	(AC006932) T27G7.16 [Arabidopsis thaliana]		

Seq. No.	52202	Seq. ID	OJ990616_10.0419.C27
Gene No.	110400	Strand	+
Start	1157	End	1286
Name	OJ990616_10.0419.C27.o1.gs	Method	GENSCAN
Start	1157	End	1286
GI	none	Score	.46
Exons	1157..1286		

Seq. No.	52202	Seq. ID	OJ990616_10.0419.C27
Gene No.	110401	Strand	-
Start	1992	End	2150
Name	OJ990616_10.0419.C27.o2.gs	Method	GENSCAN
Start	1992	End	2150
GI	none	Score	.74
Exons	1992..2150		

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	251	End	706
GI	none	Score	641
Exons	251..706, 280..705		

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.gp	Method	AAT/GAP
Start	263	End	950
GI	19595_1.R1084	Score	1323
Exons	263..950		
GI Descrip.	'3608481 2.0e-49 (AF088913) ribosomal protein L27a [Petunia x		

hybrida]'

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	275	End	810
GI	none	Score	39
Exons	275..298, 280..543, 290..547,	587..706,	596..646, 598..810

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	286	End	706
GI	none	Score	433
Exons	286..543, 287..547, 587..649,	598..651,	650..706, 652..705

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	298	End	821
GI	none	Score	526
Exons	298..663, 299..664, 649..705,	650..706,	765..821

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.gs	Method	GENSCAN
Start	299	End	739
GI	none	Score	.77
Exons	299..739		

Seq. No.	52203	Seq. ID	OJ990616_10.0419.C28
Gene No.	110402	Strand	+
Start	263	End	950
Name	OJ990616_10.0419.C28.o1.np	Method	AAT/NAP
Start	299	End	736
GI	3608481	Score	615
Exons	299..736		
GI Descrip.	(AF088913) ribosomal protein L27a [Petunia x hybrida]		

Seq. No.	52204	Seq. ID	OJ990616_10.0419.C30
Gene No.	110403	Strand	+
Start	1	End	1801
Name	OJ990616_10.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	1801
GI	5852093	Score	87
Exons	1..47, 470..594, 1700..1801		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	52205	Seq. ID	OJ990616_10.0419.C34
Gene No.	110404	Strand	-
Start	1	End	1056
Name	OJ990616_10.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	1043

GI	4585873	Score	143
Exons	1..23, 908..1043		
GI Descrip.	(AC005850) Putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52205	Seq. ID	OJ990616_10.0419.C34
Gene No.	110404	Strand	-
Start	1	End	1056
Name	OJ990616_10.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	906	End	1044
GI	none	Score	67
Exons	906..1043, 916..1044		

Seq. No.	52205	Seq. ID	OJ990616_10.0419.C34
Gene No.	110404	Strand	-
Start	1	End	1056
Name	OJ990616_10.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	906	End	1043
GI	none	Score	200
Exons	906..1043		

Seq. No.	52205	Seq. ID	OJ990616_10.0419.C34
Gene No.	110404	Strand	-
Start	1	End	1056
Name	OJ990616_10.0419.C34.o1.gs	Method	GENSCAN
Start	908	End	1043
GI	none	Score	.76
Exons	908..1043		

Seq. No.	52205	Seq. ID	OJ990616_10.0419.C34
Gene No.	110404	Strand	-
Start	1	End	1056
Name	OJ990616_10.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	912	End	1056
GI	none	Score	56
Exons	912..1043, 1006..1056		

Seq. No.	52206	Seq. ID	OJ990616_10.0419.C35
Gene No.	110405	Strand	+
Start	183	End	2901
Name	OJ990616_10.0419.C35.o1.gp	Method	AAT/GAP
Start	183	End	1796
GI	22513_1.R1084	Score	732
Exons	183..359, 495..586, 675..756, 1726..1796		
GI Descrip.	'4521193/dbj\|AB013450.1\|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	52206	Seq. ID	OJ990616_10.0419.C35
Gene No.	110405	Strand	+
Start	183	End	2901
Name	OJ990616_10.0419.C35.o1.gs	Method	GENSCAN
Start	242	End	2842
GI	none	Score	.83
Exons	242..359, 495..586, 675..756, 1726..1822, 2254..2312, 2419..2504, 2747..2842		

Seq. No.	52206	Seq. ID	OJ990616_10.0419.C35
Gene No.	110405	Strand	+

Start	183	End	2901
Name	OJ990616_10.0419.C35.o1.np	Method	AAT/NAP
Start	281	End	2901
GI	4539545	Score	404
Exons	281..359, 495..586, 672..756, 1726..1822, 2254..2312, 2419..2504, 2747..2901		
GI Descrip.	(Y16644) PRCI [Nicotiana tabacum]		

Seq. No.	52207	Seq. ID	OJ990616_10.0419.C37
Gene No.	110406	Strand	+
Start	1	End	1161
Name	OJ990616_10.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	1161
GI	7228442	Score	1999
Exons	1..1161		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	52207	Seq. ID	OJ990616_10.0419.C37
Gene No.	110406	Strand	+
Start	1	End	1161
Name	OJ990616_10.0419.C37.o1.gs	Method	GENSCAN
Start	47	End	1139
GI	none	Score	.65
Exons	47..1139		

Seq. No.	52207	Seq. ID	OJ990616_10.0419.C37
Gene No.	110406	Strand	+
Start	1	End	1161
Name	OJ990616_10.0419.C37.o1.gp	Method	AAT/GAP
Start	1017	End	1161
GI	5701669	Score	275
Exons	1017..1161		
GI Descrip.	5441880/dbj\|BAA82378.1\| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.gp	Method	AAT/GAP
Start	1	End	545
GI	1794_1.R1084	Score	898
Exons	1..144, 231..545		
GI Descrip.	'5734634/dbj\|BAA83365.1\| 4.0e-10 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	465
GI	7523511	Score	377
Exons	1..144, 231..465		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana		

chromosome II BAC F10A12 genomic sequence; putative lipase (AC006232) [Oryza sativa]

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	2	End	402
GI	none	Score	174
Exons	2..142, 3..140, 232..402, 233..382, 304..396		

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	2	End	402
GI	none	Score	98
Exons	2..121, 3..95, 232..402, 233..382		

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	14	End	396
GI	none	Score	65
Exons	14..127, 15..83, 232..396, 236..382		

Seq. No.	52208	Seq. ID	OJ990616_10.0419.C40
Gene No.	110407	Strand	-
Start	1	End	545
Name	OJ990616_10.0419.C40.o1.gs	Method	GENSCAN
Start	142	End	483
GI	none	Score	.89
Exons	142..483		

Seq. No.	52209	Seq. ID	OJ990616_10.0419.C43
Gene No.	110408	Strand	+
Start	86	End	311
Name	OJ990616_10.0419.C43.o1.gs	Method	GENSCAN
Start	86	End	311
GI	none	Score	.8
Exons	86..127, 204..311		

Seq. No.	52209	Seq. ID	OJ990616_10.0419.C43
Gene No.	110409	Strand	-
Start	1007	End	1198
Name	OJ990616_10.0419.C43.o2.gs	Method	GENSCAN
Start	1007	End	1198
GI	none	Score	.58
Exons	1007..1198		

Seq. No.	52210	Seq. ID	OJ990616_10.0419.C50
Gene No.	110410	Strand	+
Start	58	End	85
Name	OJ990616_10.0419.C50.o1.gs	Method	GENSCAN
Start	58	End	85
GI	none	Score	.73

Exons	58..85		
Seq. No.	52211	Seq. ID	OJ990616_10.0419.C52
Gene No.	110411	Strand	+
Start	1	End	806
Name	OJ990616_10.0419.C52.o1.np	Method	AAT/NAP
Start	1	End	317
GI	7486445	Score	142
Exons	1..317		
GI Descrip.	hypothetical protein F4I10.120 - Arabidopsis thaliana gi\|4455333\|emb\|CAB36793.1\| (AL035525) hypothetical protein [Arabidopsis thaliana] gi\|7270267\|emb\|CAB80036.1\| (AL161583) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52211	Seq. ID	OJ990616_10.0419.C52
Gene No.	110411	Strand	+
Start	1	End	806
Name	OJ990616_10.0419.C52.o1.tm	Method	TBLASTX:Maize
Start	41	End	260
GI	none	Score	111
Exons	41..112, 42..113, 114..236, 118..141, 177..260		
Seq. No.	52211	Seq. ID	OJ990616_10.0419.C52
Gene No.	110411	Strand	+
Start	1	End	806
Name	OJ990616_10.0419.C52.o1.gs	Method	GENSCAN
Start	50	End	806
GI	none	Score	.97
Exons	50..308, 786..806		
Seq. No.	52212	Seq. ID	OJ990616_10.0419.C58
Gene No.	110412	Strand	+
Start	110	End	660
Name	OJ990616_10.0419.C58.o1.gs	Method	GENSCAN
Start	110	End	660
GI	none	Score	.63
Exons	110..230, 572..660		
Seq. No.	52213	Seq. ID	OJ990616_10.0419.C59
Gene No.	110413	Strand	+
Start	1498	End	1620
Name	OJ990616_10.0419.C59.o1.gs	Method	GENSCAN
Start	1498	End	1620
GI	none	Score	.94
Exons	1498..1620		
Seq. No.	52213	Seq. ID	OJ990616_10.0419.C59
Gene No.	110414	Strand	-
Start	1	End	1199
Name	OJ990616_10.0419.C59.o1.np	Method	AAT/NAP
Start	1	End	1199
GI	7485509	Score	103
Exons	1..45, 1090..1199		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi\|4678270\|emb\|CAB41178.1\| (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	52214	Seq. ID	OJ990616_10.0419.C60
Gene No.	110415	Strand	+
Start	21	End	1111
Name	OJ990616_10.0419.C60.o1.np	Method	AAT/NAP
Start	21	End	1111
GI	4006829	Score	240
Exons	21..416, 622..665, 1039..1111		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52214	Seq. ID	OJ990616_10.0419.C60
Gene No.	110415	Strand	+
Start	21	End	1111
Name	OJ990616_10.0419.C60.o1.gs	Method	GENSCAN
Start	92	End	452
GI	none	Score	.89
Exons	92..452		

Seq. No.	52214	Seq. ID	OJ990616_10.0419.C60
Gene No.	110415	Strand	+
Start	21	End	1111
Name	OJ990616_10.0419.C60.o1.tw	Method	TBLASTX:Wheat
Start	164	End	392
GI	none	Score	192
Exons	164..388, 189..383, 216..392		

Seq. No.	52214	Seq. ID	OJ990616_10.0419.C60
Gene No.	110415	Strand	+
Start	21	End	1111
Name	OJ990616_10.0419.C60.o1.tc	Method	TBLASTX:Cress
Start	189	End	368
GI	none	Score	202
Exons	189..368, 191..349		

Seq. No.	52214	Seq. ID	OJ990616_10.0419.C60
Gene No.	110415	Strand	+
Start	21	End	1111
Name	OJ990616_10.0419.C60.o1.ts	Method	TBLASTX:Soybean
Start	189	End	421
GI	none	Score	281
Exons	189..416, 191..421		

Seq. No.	52215	Seq. ID	OJ990616_10.0419.C61
Gene No.	110416	Strand	+
Start	473	End	1328
Name	OJ990616_10.0419.C61.o1.gp	Method	AAT/GAP
Start	473	End	630
GI	49507_1.R1084	Score	236
Exons	473..630		
GI Descrip.	'4006829/gb\|AAC95171.1\| 2.0e-55 (AC005970) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	52215	Seq. ID	OJ990616_10.0419.C61
Gene No.	110416	Strand	+
Start	473	End	1328
Name	OJ990616_10.0419.C61.o1.gs	Method	GENSCAN
Start	494	End	630
GI	none	Score	.99

Exons	494..630		
Seq. No.	52215	Seq. ID	OJ990616_10.0419.C61
Gene No.	110416	Strand	+
Start	473	End	1328
Name	OJ990616_10.0419.C61.o1.tm	Method	TBLASTX:Maize
Start	499	End	647
GI	none	Score	187
Exons	499..630, 501..647, 502..630		
Seq. No.	52215	Seq. ID	OJ990616_10.0419.C61
Gene No.	110416	Strand	+
Start	473	End	1328
Name	OJ990616_10.0419.C61.o1.ts	Method	TBLASTX:Soybean
Start	501	End	650
GI	none	Score	191
Exons	501..650, 502..630		
Seq. No.	52215	Seq. ID	OJ990616_10.0419.C61
Gene No.	110416	Strand	+
Start	473	End	1328
Name	OJ990616_10.0419.C61.o1.np	Method	AAT/NAP
Start	508	End	1328
GI	4585873	Score	116
Exons	508..641, 1310..1328		
GI Descrip.	(AC005850) Putative protein kinase [Arabidopsis thaliana]		
Seq. No.	52216	Seq. ID	OJ990616_10.0419.C62
Gene No.	110417	Strand	+
Start	281	End	3549
Name	OJ990616_10.0419.C62.o1.gs	Method	GENSCAN
Start	281	End	3549
GI	none	Score	.67
Exons	281..501, 3375..3549		
Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110418	Strand	+
Start	2	End	1247
Name	OJ990616_10.0419.C63.o1.np	Method	AAT/NAP
Start	2	End	1247
GI	6721543	Score	105
Exons	2..132, 1168..1247		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110418	Strand	+
Start	2	End	1247
Name	OJ990616_10.0419.C63.o1.gp	Method	AAT/GAP
Start	16	End	436
GI	7406_1.R1084	Score	575
Exons	16..315, 342..436		
GI Descrip.	'1122315/emb\|CAA63901\| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110419	Strand	-
Start	630	End	1716

Name	OJ990616_10.0419.C63.o2.gp	Method	AAT/GAP
Start	379	End	831
GI	LIB3431-045-P1-N1-A10	Score	827
Exons	379..831		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110419	Strand	-
Start	630	End	1716
Name	OJ990616_10.0419.C63.o1.gs	Method	GENSCAN
Start	630	End	1416
GI	none	Score	.69
Exons	630..793, 967..1169, 1174..1221, 1285..1416		

Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110419	Strand	-
Start	630	End	1716
Name	OJ990616_10.0419.C63.o2.np	Method	AAT/NAP
Start	633	End	1716
GI	7228442	Score	267
Exons	633..816, 1629..1716		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110419	Strand	-
Start	630	End	1716
Name	OJ990616_10.0419.C63.o3.np	Method	AAT/NAP
Start	935	End	1716
GI	5441880	Score	593
Exons	935..1169, 1285..1416, 1663..1716		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	52217	Seq. ID	OJ990616_10.0419.C63
Gene No.	110419	Strand	-
Start	630	End	1716
Name	OJ990616_10.0419.C63.o4.np	Method	AAT/NAP
Start	1502	End	1716
GI	7228438	Score	72
Exons	1502..1716		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	52218	Seq. ID	OJ990616_10.0419.C64
Gene No.	110420	Strand	+
Start	886	End	1015
Name	OJ990616_10.0419.C64.o1.gs	Method	GENSCAN
Start	886	End	1015
GI	none	Score	.71
Exons	886..1015		

Seq. No.	52219	Seq. ID	OJ990616_10.0419.C65

Gene No.	110421	Strand	+
Start	1	End	976
Name	OJ990616_10.0419.C65.o2.np	Method	AAT/NAP
Start	1	End	824
GI	81286	Score	263
Exons	1..455, 535..824		
GI Descrip.	extensin - Volvox carteri (fragment) gi\|21992\|emb\|CAA46283\| (X65165) extensin [Volvox carteri]		

Seq. No.	52219	Seq. ID	OJ990616_10.0419.C65
Gene No.	110421	Strand	+
Start	1	End	976
Name	OJ990616_10.0419.C65.o1.gs	Method	GENSCAN
Start	268	End	976
GI	none	Score	.59
Exons	268..796, 840..976		

Seq. No.	52219	Seq. ID	OJ990616_10.0419.C65
Gene No.	110422	Strand	-
Start	1	End	722
Name	OJ990616_10.0419.C65.o1.tm	Method	TBLASTX:Maize
Start	1	End	275
GI	none	Score	75
Exons	1..60, 2..58, 4..78, 5..37, 28..72, 63..275, 75..260, 152..274		

Seq. No.	52219	Seq. ID	OJ990616_10.0419.C65
Gene No.	110422	Strand	-
Start	1	End	722
Name	OJ990616_10.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	722
GI	6907106	Score	296
Exons	1..722		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52220	Seq. ID	OJ990616_10.0419.C70
Gene No.	110423	Strand	+
Start	816	End	1258
Name	OJ990616_10.0419.C70.o1.gs	Method	GENSCAN
Start	816	End	1258
GI	none	Score	.53
Exons	816..1125, 1154..1258		

Seq. No.	52221	Seq. ID	OJ990616_10.0419.C71
Gene No.	110424	Strand	-
Start	858	End	2944
Name	OJ990616_10.0419.C71.o1.gs	Method	GENSCAN
Start	858	End	2941
GI	none	Score	.88
Exons	858..1337, 1378..1524, 1754..1862, 2318..2418, 2846..2941		

Seq. No.	52221	Seq. ID	OJ990616_10.0419.C71
Gene No.	110424	Strand	-
Start	858	End	2944
Name	OJ990616_10.0419.C71.o1.tm	Method	TBLASTX:Maize
Start	2429	End	2944
GI	none	Score	111

Exons	2429..2530, 2430..2531, 2430..2552, 2675..2752, 2682..2750, 2843..2944, 2844..2942		
Seq. No.	52222	Seq. ID	OJ990616_10.0419.C72
Gene No.	110425	Strand	+
Start	67	End	432
Name	OJ990616_10.0419.C72.o1.gs	Method	GENSCAN
Start	67	End	432
GI	none	Score	.7
Exons	67..112, 242..432		
Seq. No.	52223	Seq. ID	OJ990616_10.0419.C75
Gene No.	110426	Strand	+
Start	1	End	4700
Name	OJ990616_10.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	4700
GI	6648172	Score	962
Exons	1..427, 513..608, 692..781, 873..977, 1164..1223, 1331..1393, 1477..1572, 2382..2546, 3504..3677, 3956..4046, 4650..4700		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		
Seq. No.	52223	Seq. ID	OJ990616_10.0419.C75
Gene No.	110426	Strand	+
Start	1	End	4700
Name	OJ990616_10.0419.C75.o1.gs	Method	GENSCAN
Start	60	End	4054
GI	none	Score	.77
Exons	60..122, 186..427, 692..781, 873..977, 1164..1223, 1331..1393, 2382..2546, 3504..3677, 3787..3852, 3956..4054		
Seq. No.	52223	Seq. ID	OJ990616_10.0419.C75
Gene No.	110426	Strand	+
Start	1	End	4700
Name	OJ990616_10.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	1163	End	2438
GI	none	Score	92
Exons	1163..1240, 1164..1241, 1328..1423, 1330..1398, 1474..1617, 1474..1569, 1479..1628, 2379..2438		
Seq. No.	52224	Seq. ID	OJ990616_10.0419.C76
Gene No.	110427	Strand	+
Start	1	End	524
Name	OJ990616_10.0419.C76.o1.gp	Method	AAT/GAP
Start	1	End	524
GI	2798070	Score	297
Exons	1..65, 409..524		
Seq. No.	52224	Seq. ID	OJ990616_10.0419.C76
Gene No.	110427	Strand	+
Start	1	End	524
Name	OJ990616_10.0419.C76.o1.gs	Method	GENSCAN
Start	409	End	513
GI	none	Score	.58
Exons	409..513		
Seq. No.	52225	Seq. ID	OJ990616_10.0419.C82

Gene No.	110428	Strand	-
Start	1	End	342
Name	OJ990616_10.0419.C82.o1.gp	Method	AAT/GAP
Start	1	End	342
GI	none	Score	627
Exons	1..342		

Seq. No.	52226	Seq. ID	OJ990616_10.0419.C84
Gene No.	110429	Strand	-
Start	75	End	150
Name	OJ990616_10.0419.C84.o1.gs	Method	GENSCAN
Start	75	End	150
GI	none	Score	.87
Exons	75..150		

Seq. No.	52227	Seq. ID	OJ990616_10.0419.C86
Gene No.	110430	Strand	-
Start	745	End	1080
Name	OJ990616_10.0419.C86.o1.gs	Method	GENSCAN
Start	745	End	1080
GI	none	Score	.55
Exons	745..819, 1012..1080		

Seq. No.	52227	Seq. ID	OJ990616_10.0419.C86
Gene No.	110431	Strand	-
Start	1155	End	1231
Name	OJ990616_10.0419.C86.o1.gp	Method	AAT/GAP
Start	1155	End	1231
GI	none	Score	154
Exons	1155..1231		

Seq. No.	52228	Seq. ID	OJ990616_10.0419.C87
Gene No.	110432	Strand	+
Start	214	End	805
Name	OJ990616_10.0419.C87.o1.gs	Method	GENSCAN
Start	214	End	805
GI	none	Score	.88
Exons	214..280, 641..805		

Seq. No.	52229	Seq. ID	OJ990616_10.0419.C92
Gene No.	110433	Strand	+
Start	205	End	266
Name	OJ990616_10.0419.C92.o1.gs	Method	GENSCAN
Start	205	End	266
GI	none	Score	.68
Exons	205..266		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110434	Strand	+
Start	1	End	1109
Name	OJ990616_10.0419.C94.o1.np	Method	AAT/NAP
Start	1	End	810
GI	7523511	Score	254
Exons	1..81, 598..810		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F10A12 genomic sequence; putative lipase		

(AC006232) [Oryza sativa]

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110434	Strand	+
Start	1	End	1109
Name	OJ990616_10.0419.C94.o1.gp	Method	AAT/GAP
Start	599	End	1109
GI	1794_1.R1084	Score	956
Exons	599..1109		
GI Descrip.	'5734634/dbj\|BAA83365.1\| 4.0e-10 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110434	Strand	+
Start	1	End	1109
Name	OJ990616_10.0419.C94.o1.gs	Method	GENSCAN
Start	599	End	816
GI	none	Score	.68
Exons	599..816		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110435	Strand	-
Start	1840	End	2120
Name	OJ990616_10.0419.C94.o1.ts	Method	TBLASTX:Soybean
Start	592	End	825
GI	none	Score	203
Exons	592..825		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110435	Strand	-
Start	1840	End	2120
Name	OJ990616_10.0419.C94.o1.tc	Method	TBLASTX:Cress
Start	598	End	801
GI	none	Score	191
Exons	598..801, 702..800		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110435	Strand	-
Start	1840	End	2120
Name	OJ990616_10.0419.C94.o1.tm	Method	TBLASTX:Maize
Start	598	End	822
GI	none	Score	381
Exons	598..822, 692..814, 693..821		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110435	Strand	-
Start	1840	End	2120
Name	OJ990616_10.0419.C94.o1.tw	Method	TBLASTX:Wheat
Start	604	End	810
GI	none	Score	240
Exons	604..810, 693..785		

Seq. No.	52230	Seq. ID	OJ990616_10.0419.C94
Gene No.	110435	Strand	-
Start	1840	End	2120
Name	OJ990616_10.0419.C94.o2.gp	Method	AAT/GAP
Start	1840	End	2120

GI	4714605	Score	496
Exons	1840..2120		

Seq. No.	52231	Seq. ID	OJ990616_10.0419.C102
Gene No.	110436	Strand	-
Start	601	End	952
Name	OJ990616_10.0419.C102.o1.gs	Method	GENSCAN
Start	601	End	952
GI	none	Score	.4
Exons	601..708, 818..952		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.gp	Method	AAT/GAP
Start	1681	End	1910
GI	3760905	Score	421
Exons	1681..1910		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.gs	Method	GENSCAN
Start	1899	End	6380
GI	none	Score	.91
Exons	1899..2234, 2361..2453, 3482..3556, 3690..3860, 4235..4335, 5284..5440, 5541..5810, 6267..6380		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.np	Method	AAT/NAP
Start	1905	End	6381
GI	6730751	Score	715
Exons	1905..2228, 2319..2453, 3482..3556, 3690..3860, 4235..4335, 4872..4949, 5284..5440, 5541..5809, 6263..6381		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.tc	Method	TBLASTX:Cress
Start	1905	End	3538
GI	none	Score	93
Exons	1905..2087, 1906..2103, 2010..2231, 2059..2187, 2364..2456, 3476..3538		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o2.tm	Method	TBLASTX:Maize
Start	1911	End	2456
GI	none	Score	300
Exons	1911..2171, 1912..2172, 2094..2177, 2196..2240, 2197..2235, 2199..2237, 2388..2456		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103

Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.ts	Method	TBLASTX:Soybean
Start	1915	End	6380
GI	none	Score	130
Exons	1915..2112, 1917..2096, 3476..3556, 3687..3866, 3700..3846, 4232..4330, 4876..4941, 4876..4950, 4877..4954, 5279..5440, 5283..5441, 5535..5810, 5650..5820, 6271..6360, 6278..6364, 6282..6380		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o2.gp	Method	AAT/GAP
Start	3468	End	4302
GI	286763	Score	583
Exons	3468..3556, 3690..3860, 4235..4302		

Seq. No.	52232	Seq. ID	OJ990616_10.0419.C103
Gene No.	110437	Strand	-
Start	1899	End	6400
Name	OJ990616_10.0419.C103.o1.tm	Method	TBLASTX:Maize
Start	4232	End	6400
GI	none	Score	70
Exons	4232..4282, 4232..4282, 4283..4333, 4284..4334, 4867..4950, 4874..4951, 4874..4972, 5279..5443, 5283..5441, 5284..5451, 5520..5810, 5534..5812, 5541..5813, 5542..5814, 6264..6380, 6266..6400		

Seq. No.	52233	Seq. ID	OJ990616_10.0419.C104
Gene No.	110438	Strand	-
Start	1	End	2119
Name	OJ990616_10.0419.C104.o1.np	Method	AAT/NAP
Start	1	End	2119
GI	6730751	Score	214
Exons	1..199, 436..522, 624..843, 940..1105, 2099..2119		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52233	Seq. ID	OJ990616_10.0419.C104
Gene No.	110438	Strand	-
Start	1	End	2119
Name	OJ990616_10.0419.C104.o1.gs	Method	GENSCAN
Start	84	End	1089
GI	none	Score	.78
Exons	84..197, 523..609, 631..798, 940..1089		

Seq. No.	52233	Seq. ID	OJ990616_10.0419.C104
Gene No.	110438	Strand	-
Start	1	End	2119
Name	OJ990616_10.0419.C104.o1.ts	Method	TBLASTX:Soybean
Start	88	End	1093
GI	none	Score	73
Exons	88..177, 95..181, 99..197, 434..532, 438..500, 620..841, 625..885, 628..846, 937..1035, 938..985, 1018..1089, 1046..1093		

Seq. No.	52233	Seq. ID	OJ990616_10.0419.C104
Gene No.	110438	Strand	-

Start	1	End	2119
Name	OJ990616_10.0419.C104.o1.tc	Method	TBLASTX:Cress
Start	99	End	781
GI	none	Score	82
Exons	99..191, 434..532, 631..780, 644..781		

Seq. No.	52233	Seq. ID	OJ990616_10.0419.C104
Gene No.	110438	Strand	-
Start	1	End	2119
Name	OJ990616_10.0419.C104.o1.tm	Method	TBLASTX:Maize
Start	449	End	1112
GI	none	Score	87
Exons	449..532, 450..530, 457..534, 623..841, 628..846, 631..846, 937..1089, 947..1099, 1041..1112		

Seq. No.	52234	Seq. ID	OJ990616_10.0419.C105
Gene No.	110439	Strand	+
Start	37	End	130
Name	OJ990616_10.0419.C105.o1.gs	Method	GENSCAN
Start	37	End	130
GI	none	Score	.53
Exons	37..79, 84..130		

Seq. No.	52235	Seq. ID	OJ990616_10.0419.C106
Gene No.	110440	Strand	+
Start	234	End	448
Name	OJ990616_10.0419.C106.o1.gs	Method	GENSCAN
Start	234	End	448
GI	none	Score	.97
Exons	234..448		

Seq. No.	52235	Seq. ID	OJ990616_10.0419.C106
Gene No.	110441	Strand	-
Start	756	End	1764
Name	OJ990616_10.0419.C106.o2.gs	Method	GENSCAN
Start	756	End	1632
GI	none	Score	.66
Exons	756..774, 1135..1241, 1450..1632		

Seq. No.	52235	Seq. ID	OJ990616_10.0419.C106
Gene No.	110441	Strand	-
Start	756	End	1764
Name	OJ990616_10.0419.C106.o1.np	Method	AAT/NAP
Start	1438	End	1764
GI	6907106	Score	136
Exons	1438..1598, 1709..1764		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110442	Strand	+
Start	1	End	549
Name	OJ990616_10.0419.C110.o1.np	Method	AAT/NAP
Start	1	End	546
GI	4239889	Score	264
Exons	1..174, 332..546		
GI Descrip.	(AB016802) MAP kinase 5 [Zea mays]		

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110442	Strand	+
Start	1	End	549
Name	OJ990616_10.0419.C110.o1.gs	Method	GENSCAN
Start	380	End	549
GI	none	Score	.99
Exons	380..549		

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110443	Strand	+
Start	651	End	729
Name	OJ990616_10.0419.C110.o1.tw	Method	TBLASTX:Wheat
Start	331	End	666
GI	none	Score	310
Exons	331..555, 334..558, 351..557,	619..666, 630..665	

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110443	Strand	+
Start	651	End	729
Name	OJ990616_10.0419.C110.o1.tc	Method	TBLASTX:Cress
Start	334	End	571
GI	none	Score	246
Exons	334..546, 336..539, 397..549,	416..571	

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110443	Strand	+
Start	651	End	729
Name	OJ990616_10.0419.C110.o1.tm	Method	TBLASTX:Maize
Start	334	End	663
GI	none	Score	301
Exons	334..558, 351..557, 380..562, 612..662, 634..663	395..562, 610..660, 611..661,	

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110443	Strand	+
Start	651	End	729
Name	OJ990616_10.0419.C110.o1.ts	Method	TBLASTX:Soybean
Start	378	End	550
GI	none	Score	255
Exons	378..539, 379..546, 404..550		

Seq. No.	52236	Seq. ID	OJ990616_10.0419.C110
Gene No.	110443	Strand	+
Start	651	End	729
Name	OJ990616_10.0419.C110.o1.gp	Method	AAT/GAP
Start	651	End	729
GI	LIB3434-019-P1-K1-C1	Score	134
Exons	651..729		
GI Descrip.	'4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]'		

Seq. No.	52237	Seq. ID	OJ990616_10.0419.C111
Gene No.	110444	Strand	-
Start	1	End	1935
Name	OJ990616_10.0419.C111.o1.np	Method	AAT/NAP
Start	1	End	1801

GI	7485485	Score	240
Exons	1..50, 142..258, 329..402, 538..636, 874..983, 1014..1143, 1233..1359, 1551..1622, 1759..1801		
GI Descrip.	hypothetical protein F14M19.50 - Arabidopsis thaliana gi\|4539295\|emb\|CAB39598.1\| (AL049480) putative protein [Arabidopsis thaliana] gi\|7269428\|emb\|CAB79432.1\| (AL161564) putative protein [Arabidopsis thaliana]		

Seq. No.	52237	Seq. ID	OJ990616_10.0419.C111
Gene No.	110444	Strand	-
Start	1	End	1935
Name	OJ990616_10.0419.C111.o1.tm	Method	TBLASTX:Maize
Start	1	End	1857
GI	none	Score	87
Exons	1..57, 2..82, 2..52, 3..56, 142..192, 143..193, 308..370, 318..374, 468..554, 473..574, 482..574, 578..646, 581..643, 603..659, 840..1025, 846..986, 862..1029, 866..1039, 871..1041, 872..1060, 1003..1146, 1027..1155, 1049..1150, 1053..1154, 1056..1175, 1224..1334, 1231..1362, 1238..1336, 1550..1624, 1551..1625, 1551..1625, 1749..1832, 1759..1857, 1759..1845		

Seq. No.	52237	Seq. ID	OJ990616_10.0419.C111
Gene No.	110444	Strand	-
Start	1	End	1935
Name	OJ990616_10.0419.C111.o1.gs	Method	GENSCAN
Start	474	End	1903
GI	none	Score	.63
Exons	474..620, 1276..1410, 1551..1622, 1759..1903		

Seq. No.	52237	Seq. ID	OJ990616_10.0419.C111
Gene No.	110444	Strand	-
Start	1	End	1935
Name	OJ990616_10.0419.C111.o1.tw	Method	TBLASTX:Wheat
Start	871	End	1328
GI	none	Score	82
Exons	871..960, 872..952, 979..1155, 1049..1144, 1260..1328		

Seq. No.	52237	Seq. ID	OJ990616_10.0419.C111
Gene No.	110444	Strand	-
Start	1	End	1935
Name	OJ990616_10.0419.C111.o1.gp	Method	AAT/GAP
Start	1066	End	1935
GI	426039	Score	631
Exons	1066..1143, 1263..1333, 1551..1622, 1759..1935		
GI Descrip.	4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]		

Seq. No.	52238	Seq. ID	OJ990616_10.0419.C112
Gene No.	110445	Strand	-
Start	153	End	668
Name	OJ990616_10.0419.C112.o1.gs	Method	GENSCAN
Start	153	End	668
GI	none	Score	.78
Exons	153..281, 510..668		

Seq. No.	52239	Seq. ID	OJ990616_10.0419.C113
Gene No.	110446	Strand	-

Start	474	End	1028
Name	OJ990616_10.0419.C113.o1.gs	Method	GENSCAN
Start	474	End	1028
GI	none	Score	.64
Exons	474..561, 935..1028		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.gp	Method	AAT/GAP
Start	1622	End	2203
GI	28337_1.R1084	Score	947
Exons	1622..2112, 2179..2203		
GI Descrip.	'5734636/dbj\|BAA83367.1\| 2.0e-28 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.np	Method	AAT/NAP
Start	1901	End	2203
GI	5734636	Score	239
Exons	1901..2203		
GI Descrip.	(AP000391) Similar to putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.tm	Method	TBLASTX:Maize
Start	1916	End	2114
GI	none	Score	282
Exons	1916..2113, 1917..2114		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.tc	Method	TBLASTX:Cress
Start	1922	End	2114
GI	none	Score	101
Exons	1922..2113, 1923..2114		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.tw	Method	TBLASTX:Wheat
Start	1922	End	2108
GI	none	Score	98
Exons	1922..2107, 1923..2108		

Seq. No.	52240	Seq. ID	OJ990616_10.0419.C122
Gene No.	110447	Strand	-
Start	1622	End	2203
Name	OJ990616_10.0419.C122.o1.ts	Method	TBLASTX:Soybean
Start	1922	End	2114
GI	none	Score	95
Exons	1922..2113, 1926..2114		

Seq. No.	52241	Seq. ID	OJ990616_10.0419.C129
Gene No.	110448	Strand	+
Start	1	End	835
Name	OJ990616_10.0419.C129.o1.np	Method	AAT/NAP
Start	1	End	835
GI	5734764	Score	169
Exons	1..110, 204..349, 798..835		
GI Descrip.	(AC007651) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	52241	Seq. ID	OJ990616_10.0419.C129
Gene No.	110448	Strand	+
Start	1	End	835
Name	OJ990616_10.0419.C129.o1.tm	Method	TBLASTX:Maize
Start	17	End	538
GI	none	Score	121
Exons	17..106, 21..122, 28..111, 204..293, 270..356, 287..355, 448..537, 449..538		

Seq. No.	52241	Seq. ID	OJ990616_10.0419.C129
Gene No.	110448	Strand	+
Start	1	End	835
Name	OJ990616_10.0419.C129.o1.ts	Method	TBLASTX:Soybean
Start	27	End	308
GI	none	Score	126
Exons	27..122, 29..127, 204..308		

Seq. No.	52241	Seq. ID	OJ990616_10.0419.C129
Gene No.	110448	Strand	+
Start	1	End	835
Name	OJ990616_10.0419.C129.o1.gs	Method	GENSCAN
Start	45	End	360
GI	none	Score	.96
Exons	45..110, 204..360		

Seq. No.	52242	Seq. ID	OJ990616_10.0419.C133
Gene No.	110449	Strand	-
Start	1095	End	1670
Name	OJ990616_10.0419.C133.o1.gs	Method	GENSCAN
Start	1095	End	1670
GI	none	Score	.98
Exons	1095..1670		

Seq. No.	52242	Seq. ID	OJ990616_10.0419.C133
Gene No.	110449	Strand	-
Start	1095	End	1670
Name	OJ990616_10.0419.C133.o1.np	Method	AAT/NAP
Start	1350	End	1613
GI	2498982	Score	113
Exons	1350..1613		
GI Descrip.	TRANSCRIPTION INITIATION FACTOR TFIID 31 KD SUBUNIT (TAFII-31) (TAFII-32) (TAFII32) (NEURONAL CELL DEATH RELATED GENE IN NEURON -7) (DN-7) gi\|1103900 (U40188) induced upon programmed cell death in neuronally differentiated PC12 cells [Rattus norvegicus]		

Seq. No.	52242	Seq. ID	OJ990616_10.0419.C133
Gene No.	110450	Strand	-

Start	3323	End	3538
Name	OJ990616_10.0419.C133.o1.tm	Method	TBLASTX:Maize
Start	1365	End	1598
GI	none	Score	136
Exons	1365..1598, 1366..1518, 1392..1598		

Seq. No.	52242	Seq. ID	OJ990616_10.0419.C133
Gene No.	110450	Strand	-
Start	3323	End	3538
Name	OJ990616_10.0419.C133.o2.gs	Method	GENSCAN
Start	3323	End	3538
GI	none	Score	.99
Exons	3323..3538		

Seq. No.	52243	Seq. ID	OJ990616_10.0419.C142
Gene No.	110451	Strand	-
Start	120	End	401
Name	OJ990616_10.0419.C142.o1.gs	Method	GENSCAN
Start	120	End	401
GI	none	Score	.7
Exons	120..401		

Seq. No.	52244	Seq. ID	OJ990526_10.0419.C3
Gene No.	110452	Strand	-
Start	188	End	1081
Name	OJ990526_10.0419.C3.o1.np	Method	AAT/NAP
Start	188	End	1081
GI	5902448	Score	1488
Exons	188..1081		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	52244	Seq. ID	OJ990526_10.0419.C3
Gene No.	110452	Strand	-
Start	188	End	1081
Name	OJ990526_10.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	671	End	961
GI	none	Score	52
Exons	671..961, 708..821		

Seq. No.	52245	Seq. ID	OJ990526_10.0419.C4
Gene No.	110453	Strand	+
Start	236	End	2677
Name	OJ990526_10.0419.C4.o1.np	Method	AAT/NAP
Start	236	End	2677
GI	2760323	Score	51
Exons	236..316, 2415..2544, 2571..2677		
GI Descrip.	(AC002130) F1N21.8 [Arabidopsis thaliana]		

Seq. No.	52245	Seq. ID	OJ990526_10.0419.C4
Gene No.	110453	Strand	+
Start	236	End	2677
Name	OJ990526_10.0419.C4.o1.gs	Method	GENSCAN
Start	2388	End	2544
GI	none	Score	.98
Exons	2388..2544		

Seq. No.	52246	Seq. ID	OJ990526_10.0419.C5

Gene No.	110454	Strand	+
Start	1	End	2092
Name	OJ990526_10.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	2092
GI	2760323	Score	489
Exons	1..140, 218..283, 343..449, 647..747, 837..901, 1154..1202, 1285..1332, 1454..1543, 1619..1678, 1777..1858, 2072..2092		
GI Descrip.	(AC002130) F1N21.8 [Arabidopsis thaliana]		

Seq. No.	52246	Seq. ID	OJ990526_10.0419.C5
Gene No.	110454	Strand	+
Start	1	End	2092
Name	OJ990526_10.0419.C5.o1.gs	Method	GENSCAN
Start	59	End	1332
GI	none	Score	.78
Exons	59..140, 218..277, 367..421, 469..560, 664..747, 1285..1332		

Seq. No.	52246	Seq. ID	OJ990526_10.0419.C5
Gene No.	110454	Strand	+
Start	1	End	2092
Name	OJ990526_10.0419.C5.o1.gp	Method	AAT/GAP
Start	223	End	1842
GI	74204_1.R1084	Score	913
Exons	223..277, 367..421, 664..747, 837..901, 1154..1202, 1285..1332, 1454..1543, 1619..1679, 1778..1842		
GI Descrip.	'2760323 5.0e-59 (AC002130) F1N21.8 [Arabidopsis thaliana]'		

Seq. No.	52246	Seq. ID	OJ990526_10.0419.C5
Gene No.	110454	Strand	+
Start	1	End	2092
Name	OJ990526_10.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1139	End	1657
GI	none	Score	77
Exons	1139..1201, 1152..1205, 1285..1332, 1451..1549, 1616..1657		

Seq. No.	52247	Seq. ID	OJ990526_10.0419.C6
Gene No.	110455	Strand	+
Start	1	End	1327
Name	OJ990526_10.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1187
GI	2760323	Score	489
Exons	1..156, 418..492, 569..654, 885..978, 1062..1187		
GI Descrip.	(AC002130) F1N21.8 [Arabidopsis thaliana]		

Seq. No.	52247	Seq. ID	OJ990526_10.0419.C6
Gene No.	110455	Strand	+
Start	1	End	1327
Name	OJ990526_10.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	79	End	1327
GI	none	Score	106
Exons	79..159, 96..176, 97..159, 408..491, 415..492, 416..493, 420..494, 543..653, 562..654, 569..655, 880..978, 881..976, 886..981, 936..983, 1059..1169, 1059..1160, 1061..1165, 1260..1313, 1268..1327		

Seq. No.	52247	Seq. ID	OJ990526_10.0419.C6
Gene No.	110455	Strand	+

Start	1	End	1327
Name	OJ990526_10.0419.C6.o1.gs	Method	GENSCAN
Start	446	End	1292
GI	none	Score	.79
Exons	446..492, 885..978, 1062..1169, 1260..1292		

Seq. No.	52247	Seq. ID	OJ990526_10.0419.C6
Gene No.	110455	Strand	+
Start	1	End	1327
Name	OJ990526_10.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	620	End	1169
GI	none	Score	76
Exons	620..652, 883..981, 939..974, 1061..1168, 1062..1169		

Seq. No.	52248	Seq. ID	OJ990526_10.0419.C8
Gene No.	110456	Strand	+
Start	124	End	238
Name	OJ990526_10.0419.C8.o1.gs	Method	GENSCAN
Start	124	End	238
GI	none	Score	.91
Exons	124..238		

Seq. No.	52249	Seq. ID	OJ990526_10.0419.C9
Gene No.	110457	Strand	-
Start	1	End	2136
Name	OJ990526_10.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2136
GI	6691191	Score	287
Exons	1..37, 996..1355, 2061..2136		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	52249	Seq. ID	OJ990526_10.0419.C9
Gene No.	110457	Strand	-
Start	1	End	2136
Name	OJ990526_10.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1060	End	1284
GI	none	Score	138
Exons	1060..1284, 1061..1258		

Seq. No.	52249	Seq. ID	OJ990526_10.0419.C9
Gene No.	110457	Strand	-
Start	1	End	2136
Name	OJ990526_10.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	1108	End	1359
GI	none	Score	114
Exons	1108..1359, 1109..1300		

Seq. No.	52249	Seq. ID	OJ990526_10.0419.C9
Gene No.	110457	Strand	-
Start	1	End	2136
Name	OJ990526_10.0419.C9.o2.np	Method	AAT/NAP
Start	1365	End	2136
GI	7340881	Score	115
Exons	1365..1398, 1505..1629, 2008..2136		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52250	Seq. ID	OJ990526_10.0419.C14

Gene No.	110458	Strand	-
Start	335	End	960
Name	OJ990526_10.0419.C14.o1.gs	Method	GENSCAN
Start	335	End	960
GI	none	Score	.57
Exons	335..430, 907..960		

Seq. No.	52251	Seq. ID	OJ990526_10.0419.C15
Gene No.	110459	Strand	+
Start	224	End	408
Name	OJ990526_10.0419.C15.o1.gs	Method	GENSCAN
Start	224	End	408
GI	none	Score	.76
Exons	224..278, 398..408		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1873
GI	7489737	Score	454
Exons	1..20, 557..1431, 1462..1701, 1750..1873		
GI Descrip.	gag protein homolog - maize retrotransposon Opie-2 gi\|3645898\|gb\|AAC49501.1\| (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o1.gs	Method	GENSCAN
Start	458	End	1722
GI	none	Score	.74
Exons	458..1058, 1079..1722		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	560	End	1800
GI	none	Score	71
Exons	560..667, 671..1006, 1705..1800		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	563	End	958
GI	none	Score	255
Exons	563..658, 565..663, 566..958		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	716	End	1090
GI	none	Score	199
Exons	716..1090, 857..967		

Seq. No.	52252	Seq. ID	OJ990526_10.0419.C19
Gene No.	110460	Strand	+
Start	1	End	1873
Name	OJ990526_10.0419.C19.o2.np	Method	AAT/NAP
Start	1690	End	1873
GI	7489803	Score	133
Exons	1690..1873		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi\|3645899\|gb\|AAC49502.1\| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	52253	Seq. ID	OJ990526_10.0419.C20
Gene No.	110461	Strand	+
Start	1	End	757
Name	OJ990526_10.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	757
GI	4680183	Score	1053
Exons	1..757		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52253	Seq. ID	OJ990526_10.0419.C20
Gene No.	110461	Strand	+
Start	1	End	757
Name	OJ990526_10.0419.C20.o1.gs	Method	GENSCAN
Start	57	End	479
GI	none	Score	.68
Exons	57..479		

Seq. No.	52253	Seq. ID	OJ990526_10.0419.C20
Gene No.	110461	Strand	+
Start	1	End	757
Name	OJ990526_10.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	443	End	752
GI	none	Score	236
Exons	443..751, 444..752		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	556
GI	4416301	Score	107
Exons	1..243, 277..556		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o1.gs	Method	GENSCAN
Start	55	End	784
GI	none	Score	.43
Exons	55..784		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288

Name	OJ990526_10.0419.C22.o2.np	Method	AAT/NAP
Start	622	End	1288
GI	7489803	Score	766
Exons	622..1288		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi\|3645899\|gb\|AAC49502.1\| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	631	End	873
GI	none	Score	272
Exons	631..873, 636..872		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	652	End	966
GI	none	Score	232
Exons	652..966, 657..686, 741..866		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	874	End	1254
GI	none	Score	146
Exons	874..1002, 882..989, 993..1253, 997..1254		

Seq. No.	52254	Seq. ID	OJ990526_10.0419.C22
Gene No.	110462	Strand	+
Start	1	End	1288
Name	OJ990526_10.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	1033	End	1272
GI	none	Score	248
Exons	1033..1260, 1041..1259, 1045..1272		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1834
GI	4680179	Score	2624
Exons	1..1834		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o4.tw	Method	TBLASTX:Wheat
Start	67	End	292
GI	none	Score	118
Exons	67..291, 77..292		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	154	End	739
GI	none	Score	104
Exons	154..579, 155..352, 169..420, 584..739	407..580, 575..724, 577..738,	

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.gs	Method	GENSCAN
Start	244	End	1790
GI	none	Score	.46
Exons	244..1245, 1251..1790		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	292	End	918
GI	none	Score	44
Exons	292..918, 293..352, 410..859,	571..915	

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	787	End	1077
GI	none	Score	193
Exons	787..1077, 791..970, 973..1077		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	877	End	1137
GI	none	Score	125
Exons	877..1125, 877..1137		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	901	End	1227
GI	none	Score	87
Exons	901..1044, 1045..1227		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	924	End	1463
GI	none	Score	146
Exons	924..1190, 925..1206, 925..1317, 1248..1463		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	1491	End	1833
GI	none	Score	213
Exons	1491..1832, 1498..1833		

Seq. No.	52255	Seq. ID	OJ990526_10.0419.C24
Gene No.	110463	Strand	-
Start	1	End	1834
Name	OJ990526_10.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	1491	End	1833
GI	none	Score	285
Exons	1491..1832, 1498..1833		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1600
GI	4680179	Score	1652
Exons	1..1082, 1110..1600		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	3	End	474
GI	none	Score	104
Exons	3..470, 100..474		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	56	End	540
GI	none	Score	239
Exons	56..430, 57..539, 60..536, 100..540		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	189	End	503
GI	none	Score	198
Exons	189..503		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	475	End	668
GI	none	Score	156
Exons	475..630, 477..668		

Seq. No.	52256	Seq. ID	OJ990526_10.0419.C25
Gene No.	110464	Strand	-
Start	1	End	1600
Name	OJ990526_10.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	672	End	1025
GI	none	Score	241
Exons	672..1025		

Seq. No.	52257	Seq. ID	OJ990526_10.0419.C26
Gene No.	110465	Strand	-
Start	292	End	2001
Name	OJ990526_10.0419.C26.o1.gs	Method	GENSCAN
Start	292	End	2001
GI	none	Score	.9
Exons	292..1083, 1848..2001		

Seq. No.	52257	Seq. ID	OJ990526_10.0419.C26
Gene No.	110465	Strand	-
Start	292	End	2001
Name	OJ990526_10.0419.C26.o1.np	Method	AAT/NAP
Start	295	End	1083
GI	6983861	Score	1353
Exons	295..1083		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	52257	Seq. ID	OJ990526_10.0419.C26
Gene No.	110465	Strand	-
Start	292	End	2001
Name	OJ990526_10.0419.C26.o1.gp	Method	AAT/GAP
Start	1704	End	1878
GI	LIB3433-026-P1-K1-C1	Score	241
Exons	1704..1878		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52258	Seq. ID	OJ990526_10.0419.C27
Gene No.	110466	Strand	+
Start	41	End	912
Name	OJ990526_10.0419.C27.o1.gs	Method	GENSCAN
Start	41	End	912
GI	none	Score	.53
Exons	41..357, 504..912		

Seq. No.	52259	Seq. ID	OJ990526_10.0419.C30
Gene No.	110467	Strand	+
Start	756	End	849
Name	OJ990526_10.0419.C30.o1.gs	Method	GENSCAN
Start	756	End	849
GI	none	Score	.42
Exons	756..849		

Seq. No.	52260	Seq. ID	OJ990526_10.0419.C31
Gene No.	110468	Strand	-
Start	239	End	647
Name	OJ990526_10.0419.C31.o1.gs	Method	GENSCAN
Start	239	End	647

GI	none	Score	.97
Exons	239..647		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	926
GI	5902445	Score	1408
Exons	1..926		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o2.tw	Method	TBLASTX:Wheat
Start	59	End	301
GI	none	Score	251
Exons	59..301, 60..296		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	68	End	334
GI	none	Score	145
Exons	68..199, 69..224, 188..334, 219..332		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o1.gs	Method	GENSCAN
Start	96	End	929
GI	none	Score	.93
Exons	96..498, 535..929		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	303	End	917
GI	none	Score	372
Exons	303..794, 323..409, 458..565, 780..917		

Seq. No.	52261	Seq. ID	OJ990526_10.0419.C32
Gene No.	110469	Strand	+
Start	1	End	929
Name	OJ990526_10.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	624	End	878
GI	none	Score	169
Exons	624..797, 737..796, 776..850, 777..878		

Seq. No.	52262	Seq. ID	OJ990526_10.0419.C33
Gene No.	110470	Strand	+
Start	458	End	1325
Name	OJ990526_10.0419.C33.o1.gs	Method	GENSCAN
Start	458	End	1325

GI	none	Score	.75
Exons	458..534, 1109..1325		

Seq. No.	52263	Seq. ID	OJ990526_10.0419.C34
Gene No.	110471	Strand	-
Start	1667	End	3238
Name	OJ990526_10.0419.C34.o1.gp	Method	AAT/GAP
Start	1578	End	3101
GI	none	Score	1222
Exons	1578..1803, 1989..2283, 2360..2406, 2999..3101		

Seq. No.	52263	Seq. ID	OJ990526_10.0419.C34
Gene No.	110471	Strand	-
Start	1667	End	3238
Name	OJ990526_10.0419.C34.o1.gs	Method	GENSCAN
Start	1667	End	3235
GI	none	Score	.79
Exons	1667..1803, 1989..2097, 2157..2285, 2999..3099, 3187..3235		

Seq. No.	52263	Seq. ID	OJ990526_10.0419.C34
Gene No.	110471	Strand	-
Start	1667	End	3238
Name	OJ990526_10.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	2063	End	3238
GI	none	Score	70
Exons	2063..2137, 2065..2136, 2118..2270, 2118..2273, 2126..2323, 2128..2274, 2141..2278, 2360..2413, 2362..2409, 2999..3019, 3020..3100, 3021..3068, 3190..3237, 3190..3237, 3191..3238		

Seq. No.	52264	Seq. ID	OJ990526_10.0419.C36
Gene No.	110472	Strand	-
Start	1	End	1354
Name	OJ990526_10.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1354
GI	6815052	Score	375
Exons	1..498, 1273..1354		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	52264	Seq. ID	OJ990526_10.0419.C36
Gene No.	110472	Strand	-
Start	1	End	1354
Name	OJ990526_10.0419.C36.o1.gs	Method	GENSCAN
Start	702	End	1196
GI	none	Score	.76
Exons	702..886, 1130..1196		

Seq. No.	52265	Seq. ID	OJ990526_10.0419.C37
Gene No.	110473	Strand	+
Start	500	End	1684
Name	OJ990526_10.0419.C37.o1.gs	Method	GENSCAN
Start	500	End	1684
GI	none	Score	.45
Exons	500..644, 1371..1684		

Seq. No.	52265	Seq. ID	OJ990526_10.0419.C37
Gene No.	110474	Strand	-
Start	320	End	1712

Name	OJ990526_10.0419.C37.o2.np	Method	AAT/NAP
Start	320	End	1712
GI	7248394	Score	346
Exons	320..698, 1089..1427, 1640..1712		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	52266	Seq. ID	OJ990526_10.0419.C39
Gene No.	110475	Strand	-
Start	441	End	857
Name	OJ990526_10.0419.C39.o1.gs	Method	GENSCAN
Start	441	End	857
GI	none	Score	.62
Exons	441..587, 770..857		

Seq. No.	52267	Seq. ID	OJ990526_10.0419.C43
Gene No.	110476	Strand	+
Start	1	End	222
Name	OJ990526_10.0419.C43.o2.np	Method	AAT/NAP
Start	1	End	222
GI	4680183	Score	130
Exons	1..38, 133..222		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52267	Seq. ID	OJ990526_10.0419.C43
Gene No.	110477	Strand	-
Start	1	End	100
Name	OJ990526_10.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	100
GI	6721561	Score	159
Exons	1..100		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6815086\|dbj\|BAA90372.1\| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	738
GI	7489803	Score	906
Exons	1..738		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi\|3645899\|gb\|AAC49502.1\| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	6	End	335
GI	none	Score	41

Exons	6..47, 32..76, 51..74, 58..165, 87..335, 103..327		
Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	12	End	494
GI	none	Score	353
Exons	12..371, 16..375, 366..494, 379..486		
Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o1.gs	Method	GENSCAN
Start	37	End	686
GI	none	Score	.47
Exons	37..686		
Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o2.tw	Method	TBLASTX:Wheat
Start	402	End	711
GI	none	Score	81
Exons	402..710, 502..627, 682..711		
Seq. No.	52268	Seq. ID	OJ990526_10.0419.C44
Gene No.	110478	Strand	-
Start	1	End	738
Name	OJ990526_10.0419.C44.o2.tm	Method	TBLASTX:Maize
Start	495	End	711
GI	none	Score	136
Exons	495..710, 496..711		
Seq. No.	52269	Seq. ID	OJ990526_10.0419.C46
Gene No.	110479	Strand	-
Start	881	End	991
Name	OJ990526_10.0419.C46.o1.gs	Method	GENSCAN
Start	881	End	991
GI	none	Score	.94
Exons	881..991		
Seq. No.	52270	Seq. ID	OJ990526_10.0419.C48
Gene No.	110480	Strand	+
Start	587	End	2172
Name	OJ990526_10.0419.C48.o1.gs	Method	GENSCAN
Start	587	End	2172
GI	none	Score	.44
Exons	587..748, 2089..2172		
Seq. No.	52271	Seq. ID	OJ990526_10.0419.C50
Gene No.	110481	Strand	+
Start	354	End	604
Name	OJ990526_10.0419.C50.o1.gs	Method	GENSCAN
Start	354	End	604
GI	none	Score	.79
Exons	354..368, 542..604		

Seq. No.	52272	Seq. ID	OJ990526_10.0419.C51
Gene No.	110482	Strand	+
Start	1	End	3420
Name	OJ990526_10.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	3226
GI	5852181	Score	146
Exons	1..21, 1662..1954, 3118..3226		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	52272	Seq. ID	OJ990526_10.0419.C51
Gene No.	110482	Strand	+
Start	1	End	3420
Name	OJ990526_10.0419.C51.o1.gs	Method	GENSCAN
Start	681	End	3420
GI	none	Score	.82
Exons	681..891, 1630..1639, 2078..2219, 2463..2848, 2861..3018, 3218..3420		

Seq. No.	52272	Seq. ID	OJ990526_10.0419.C51
Gene No.	110482	Strand	+
Start	1	End	3420
Name	OJ990526_10.0419.C51.o1.tw	Method	TBLASTX:Wheat
Start	2273	End	2626
GI	none	Score	196
Exons	2273..2626		

Seq. No.	52273	Seq. ID	OJ990526_10.0419.C54
Gene No.	110483	Strand	-
Start	616	End	696
Name	OJ990526_10.0419.C54.o1.gs	Method	GENSCAN
Start	616	End	696
GI	none	Score	.44
Exons	616..696		

Seq. No.	52274	Seq. ID	OJ990526_10.0419.C55
Gene No.	110484	Strand	+
Start	287	End	670
Name	OJ990526_10.0419.C55.o1.gs	Method	GENSCAN
Start	287	End	670
GI	none	Score	.87
Exons	287..670		

Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o1.np	Method	AAT/NAP
Start	9	End	730
GI	5902445	Score	1140
Exons	9..730		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o2.tw	Method	TBLASTX:Wheat
Start	23	End	309

GI	none	Score	315
Exons	23..307, 27..308, 69..308, 70..309		
Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o1.tm	Method	TBLASTX:Maize
Start	84	End	440
GI	none	Score	372
Exons	84..440, 125..430		
Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o1.gs	Method	GENSCAN
Start	102	End	635
GI	none	Score	.81
Exons	102..458, 507..635		
Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o1.tw	Method	TBLASTX:Wheat
Start	309	End	728
GI	none	Score	442
Exons	309..728, 311..727		
Seq. No.	52275	Seq. ID	OJ990526_10.0419.C64
Gene No.	110485	Strand	+
Start	9	End	730
Name	OJ990526_10.0419.C64.o2.tm	Method	TBLASTX:Maize
Start	444	End	730
GI	none	Score	197
Exons	444..728, 572..730		
Seq. No.	52276	Seq. ID	OJ990526_10.0419.C67
Gene No.	110486	Strand	+
Start	1	End	812
Name	OJ990526_10.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	812
GI	6063554	Score	98
Exons	1..60, 640..812		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	52277	Seq. ID	OJ990526_10.0419.C68
Gene No.	110487	Strand	+
Start	1	End	1521
Name	OJ990526_10.0419.C68.o1.np	Method	AAT/NAP
Start	1	End	1518
GI	6691716	Score	801
Exons	1..162, 398..582, 657..752, 902..1007, 1070..1518		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6691717\|dbj\|BAA89397.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52277	Seq. ID	OJ990526_10.0419.C68
Gene No.	110487	Strand	+
Start	1	End	1521
Name	OJ990526_10.0419.C68.o1.gp	Method	AAT/GAP
Start	92	End	264
GI	LIB3433-026-P1-K1-C1	Score	237
Exons	92..264		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52277	Seq. ID	OJ990526_10.0419.C68
Gene No.	110487	Strand	+
Start	1	End	1521
Name	OJ990526_10.0419.C68.o1.gs	Method	GENSCAN
Start	403	End	1521
GI	none	Score	.83
Exons	403..582, 1057..1521		

Seq. No.	52277	Seq. ID	OJ990526_10.0419.C68
Gene No.	110488	Strand	-
Start	1854	End	1994
Name	OJ990526_10.0419.C68.o2.np	Method	AAT/NAP
Start	1854	End	1994
GI	4680180	Score	162
Exons	1854..1994		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o1.np	Method	AAT/NAP
Start	1	End	1806
GI	5902445	Score	2867
Exons	1..1806		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o1.gs	Method	GENSCAN
Start	61	End	1752
GI	none	Score	.66
Exons	61..344, 469..898, 916..1752		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o1.tw	Method	TBLASTX:Wheat
Start	119	End	509
GI	none	Score	56
Exons	119..166, 121..306, 121..360, 197..361, 356..508, 360..509		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o1.tm	Method	TBLASTX:Maize
Start	151	End	515

GI	none	Score	141
Exons	151..198, 190..360, 203..361, 356..514, 360..515		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o4.tw	Method	TBLASTX:Wheat
Start	650	End	904
GI	none	Score	74
Exons	650..904, 689..901		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o2.ts	Method	TBLASTX:Soybean
Start	907	End	1257
GI	none	Score	61
Exons	907..1113, 1043..1117, 1159..1257, 1163..1249		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o3.tw	Method	TBLASTX:Wheat
Start	907	End	1248
GI	none	Score	233
Exons	907..1248, 908..1243		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o3.tm	Method	TBLASTX:Maize
Start	922	End	1194
GI	none	Score	111
Exons	922..1020, 1024..1194		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o2.tw	Method	TBLASTX:Wheat
Start	1285	End	1714
GI	none	Score	153
Exons	1285..1713, 1286..1714		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o2.tm	Method	TBLASTX:Maize
Start	1372	End	1806
GI	none	Score	75
Exons	1372..1398, 1396..1533, 1409..1534, 1495..1806, 1562..1783		

Seq. No.	52278	Seq. ID	OJ990526_10.0419.C69
Gene No.	110489	Strand	-
Start	1	End	1806
Name	OJ990526_10.0419.C69.o1.ts	Method	TBLASTX:Soybean
Start	1498	End	1806
GI	none	Score	205

Exons	1498..1806		
Seq. No.	52279	Seq. ID	OJ990526_10.0419.C70
Gene No.	110490	Strand	-
Start	1	End	1088
Name	OJ990526_10.0419.C70.o1.np	Method	AAT/NAP
Start	1	End	1088
GI	7228457	Score	842
Exons	1..683, 756..1088		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	52279	Seq. ID	OJ990526_10.0419.C70
Gene No.	110490	Strand	-
Start	1	End	1088
Name	OJ990526_10.0419.C70.o1.tm	Method	TBLASTX:Maize
Start	58	End	414
GI	none	Score	204
Exons	58..414, 68..373		
Seq. No.	52279	Seq. ID	OJ990526_10.0419.C70
Gene No.	110490	Strand	-
Start	1	End	1088
Name	OJ990526_10.0419.C70.o1.tw	Method	TBLASTX:Wheat
Start	88	End	544
GI	none	Score	279
Exons	88..543, 89..544		
Seq. No.	52279	Seq. ID	OJ990526_10.0419.C70
Gene No.	110490	Strand	-
Start	1	End	1088
Name	OJ990526_10.0419.C70.o1.ts	Method	TBLASTX:Soybean
Start	139	End	504
GI	none	Score	134
Exons	139..273, 280..504		
Seq. No.	52279	Seq. ID	OJ990526_10.0419.C70
Gene No.	110490	Strand	-
Start	1	End	1088
Name	OJ990526_10.0419.C70.o2.tw	Method	TBLASTX:Wheat
Start	547	End	1000
GI	none	Score	125
Exons	547..660, 764..1000, 766..996		
Seq. No.	52280	Seq. ID	OJ990526_10.0419.C72
Gene No.	110491	Strand	+
Start	727	End	1516
Name	OJ990526_10.0419.C72.o1.gs	Method	GENSCAN
Start	727	End	1516
GI	none	Score	.73
Exons	727..832, 993..1516		
Seq. No.	52281	Seq. ID	OJ990526_13.0419.C5
Gene No.	110492	Strand	+
Start	62	End	368
Name	OJ990526_13.0419.C5.o1.gs	Method	GENSCAN

Start	62	End	368
GI	none	Score	.47
Exons	62..145, 230..368		

Seq. No.	52282	Seq. ID	OJ990526_13.0419.C6
Gene No.	110493	Strand	-
Start	189	End	1965
Name	OJ990526_13.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	184	End	1935
GI	none	Score	91
Exons	184..309, 189..254, 190..288, 333..434, 334..438, 335..436, 1574..1630, 1590..1763, 1593..1664, 1639..1767, 1648..1764, 1870..1935		

Seq. No.	52282	Seq. ID	OJ990526_13.0419.C6
Gene No.	110493	Strand	-
Start	189	End	1965
Name	OJ990526_13.0419.C6.o1.gs	Method	GENSCAN
Start	189	End	1757
GI	none	Score	.96
Exons	189..254, 332..428, 1593..1757		

Seq. No.	52282	Seq. ID	OJ990526_13.0419.C6
Gene No.	110493	Strand	-
Start	189	End	1965
Name	OJ990526_13.0419.C6.o1.np	Method	AAT/NAP
Start	310	End	1965
GI	2342724	Score	122
Exons	310..428, 1593..1763, 1882..1965		
GI Descrip.	(AC002341) unknown protein [Arabidopsis thaliana]		

Seq. No.	52283	Seq. ID	OJ990526_13.0419.C9
Gene No.	110494	Strand	+
Start	506	End	791
Name	OJ990526_13.0419.C9.o1.gs	Method	GENSCAN
Start	506	End	791
GI	none	Score	.83
Exons	506..630, 714..791		

Seq. No.	52284	Seq. ID	OJ990526_13.0419.C11
Gene No.	110495	Strand	+
Start	63	End	541
Name	OJ990526_13.0419.C11.o1.gp	Method	AAT/GAP
Start	63	End	541
GI	11688_1.R1084	Score	388
Exons	63..158, 417..541		
GI Descrip.	'3068713 6.0e-54 (AF049236) unknown [Arabidopsis thaliana]'		

Seq. No.	52285	Seq. ID	OJ990526_13.0419.C14
Gene No.	110496	Strand	+
Start	47	End	577
Name	OJ990526_13.0419.C14.o1.gs	Method	GENSCAN
Start	47	End	577
GI	none	Score	1
Exons	47..577		

Seq. No.	52286	Seq. ID	OJ990526_13.0419.C17

Gene No.	110497	Strand	+
Start	354	End	376
Name	OJ990526_13.0419.C17.o1.gs	Method	GENSCAN
Start	354	End	376
GI	none	Score	.58
Exons	354..376		

Seq. No.	52287	Seq. ID	OJ990526_13.0419.C18
Gene No.	110498	Strand	-
Start	1091	End	1685
Name	OJ990526_13.0419.C18.o1.np	Method	AAT/NAP
Start	911	End	1646
GI	6665541	Score	249
Exons	911..1007, 1374..1471, 1548..1646		
GI Descrip.	(AC013289) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52287	Seq. ID	OJ990526_13.0419.C18
Gene No.	110498	Strand	-
Start	1091	End	1685
Name	OJ990526_13.0419.C18.o1.gs	Method	GENSCAN
Start	1091	End	1685
GI	none	Score	.74
Exons	1091..1288, 1548..1685		

Seq. No.	52287	Seq. ID	OJ990526_13.0419.C18
Gene No.	110499	Strand	-
Start	1818	End	1936
Name	OJ990526_13.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	866	End	1642
GI	none	Score	67
Exons	866..1009, 915..1022, 1373..1471, 1377..1472, 1548..1640, 1548..1640, 1553..1642		

Seq. No.	52287	Seq. ID	OJ990526_13.0419.C18
Gene No.	110499	Strand	-
Start	1818	End	1936
Name	OJ990526_13.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	954	End	1640
GI	none	Score	77
Exons	954..1022, 955..1008, 956..1009, 1373..1471, 1374..1472, 1375..1494, 1546..1611, 1547..1633, 1548..1640		

Seq. No.	52287	Seq. ID	OJ990526_13.0419.C18
Gene No.	110499	Strand	-
Start	1818	End	1936
Name	OJ990526_13.0419.C18.o1.gp	Method	AAT/GAP
Start	1818	End	1936
GI	568980	Score	174
Exons	1818..1936		

Seq. No.	52288	Seq. ID	OJ990526_13.0419.C19
Gene No.	110500	Strand	+
Start	258	End	1111
Name	OJ990526_13.0419.C19.o1.gp	Method	AAT/GAP
Start	258	End	1111
GI	none	Score	1302
Exons	258..722, 830..1111		

Seq. No.	52288	Seq. ID	OJ990526_13.0419.C19
Gene No.	110500	Strand	+
Start	258	End	1111
Name	OJ990526_13.0419.C19.o1.gs	Method	GENSCAN
Start	530	End	939
GI	none	Score	.57
Exons	530..722, 830..939		

Seq. No.	52289	Seq. ID	OJ990526_13.0419.C26
Gene No.	110501	Strand	+
Start	255	End	656
Name	OJ990526_13.0419.C26.o1.gs	Method	GENSCAN
Start	255	End	656
GI	none	Score	.97
Exons	255..269, 501..656		

Seq. No.	52290	Seq. ID	OJ990526_13.0419.C27
Gene No.	110502	Strand	+
Start	126	End	410
Name	OJ990526_13.0419.C27.o1.gs	Method	GENSCAN
Start	126	End	410
GI	none	Score	.85
Exons	126..146, 324..410		

Seq. No.	52291	Seq. ID	OJ990526_13.0419.C28
Gene No.	110503	Strand	+
Start	576	End	646
Name	OJ990526_13.0419.C28.o1.gs	Method	GENSCAN
Start	576	End	646
GI	none	Score	.5
Exons	576..646		

Seq. No.	52292	Seq. ID	OJ990526_13.0419.C31
Gene No.	110504	Strand	+
Start	765	End	1075
Name	OJ990526_13.0419.C31.o1.gs	Method	GENSCAN
Start	765	End	1075
GI	none	Score	.62
Exons	765..826, 946..1075		

Seq. No.	52293	Seq. ID	OJ990526_13.0419.C34
Gene No.	110505	Strand	+
Start	170	End	236
Name	OJ990526_13.0419.C34.o1.gs	Method	GENSCAN
Start	170	End	236
GI	none	Score	.79
Exons	170..236		

Seq. No.	52294	Seq. ID	OJ990526_13.0419.C36
Gene No.	110506	Strand	-
Start	2572	End	3717
Name	OJ990526_13.0419.C36.o2.gs	Method	GENSCAN
Start	2572	End	3717
GI	none	Score	.97
Exons	2572..2964, 3533..3717		

Seq. No.	52295	Seq. ID	OJ990526_13.0419.C37
Gene No.	110507	Strand	-
Start	733	End	1159
Name	OJ990526_13.0419.C37.o1.gs	Method	GENSCAN
Start	733	End	1159
GI	none	Score	.41
Exons	733..882, 1139..1159		

Seq. No.	52296	Seq. ID	OJ990526_13.0419.C39
Gene No.	110508	Strand	+
Start	1	End	1274
Name	OJ990526_13.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	1274
GI	2342724	Score	344
Exons	1..26, 118..228, 676..790, 944..1026, 1110..1274		
GI Descrip.	(AC002341) unknown protein [Arabidopsis thaliana]		

Seq. No.	52296	Seq. ID	OJ990526_13.0419.C39
Gene No.	110508	Strand	+
Start	1	End	1274
Name	OJ990526_13.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	162	End	1211
GI	none	Score	81
Exons	162..224, 163..231, 676..753, 678..785, 904..1029, 937..960, 955..1029, 1107..1211, 1112..1210		

Seq. No.	52296	Seq. ID	OJ990526_13.0419.C39
Gene No.	110508	Strand	+
Start	1	End	1274
Name	OJ990526_13.0419.C39.o1.gs	Method	GENSCAN
Start	163	End	807
GI	none	Score	.42
Exons	163..228, 676..807		

Seq. No.	52296	Seq. ID	OJ990526_13.0419.C39
Gene No.	110508	Strand	+
Start	1	End	1274
Name	OJ990526_13.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	1107	End	1211
GI	none	Score	189
Exons	1107..1211, 1107..1208, 1108..1209, 1109..1210		

Seq. No.	52297	Seq. ID	OJ990526_13.0419.C41
Gene No.	110509	Strand	+
Start	154	End	327
Name	OJ990526_13.0419.C41.o1.gs	Method	GENSCAN
Start	154	End	327
GI	none	Score	.78
Exons	154..327		

Seq. No.	52298	Seq. ID	OJ990526_13.0419.C43
Gene No.	110510	Strand	
Start	461	End	981
Name	OJ990526_13.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	461	End	897
GI	none	Score	123
Exons	461..538, 584..715, 718..897		

Seq. No.	52298	Seq. ID	OJ990526_13.0419.C43
Gene No.	110510	Strand	
Start	461	End	981
Name	OJ990526_13.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	551	End	981
GI	none	Score	133
Exons	551..712, 718..981		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.gp	Method	AAT/GAP
Start	1	End	81
GI	LIB3431-061-P1-K1-H10	Score	116
Exons	1..81		
GI Descrip.	'1144509/gb\|U34601\|OSU34601 1.0e-10 Oryza sativa wanderer mobile element linked to Xa21'		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	1461
GI	3068713	Score	314
Exons	1..19, 593..737, 841..957, 1047..1100, 1196..1461		
GI Descrip.	(AF049236) unknown [Arabidopsis thaliana]		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o2.gp	Method	AAT/GAP
Start	577	End	1312
GI	11688_1.R1084	Score	724
Exons	577..737, 841..957, 1047..1100, 1196..1312		
GI Descrip.	'3068713 6.0e-54 (AF049236) unknown [Arabidopsis thaliana]'		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.gs	Method	GENSCAN
Start	600	End	1312
GI	none	Score	.94
Exons	600..737, 841..957, 1196..1312		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	648	End	1312
GI	none	Score	91
Exons	648..737, 838..957, 840..959, 840..962, 1046..1102, 1047..1103, 1195..1305, 1196..1312		

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461

Name	OJ990526_13.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	648	End	1312
GI	none	Score	80
Exons	648..737, 838..957, 852..965, 1195..1305, 1196..1312	1046..1102, 1047..1103,	

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	648	End	1312
GI	none	Score	85
Exons	648..737, 838..957, 838..951, 1195..1305, 1196..1312	840..962, 1047..1103, 1056..1100,	

Seq. No.	52299	Seq. ID	OJ990526_13.0419.C46
Gene No.	110511	Strand	+
Start	1	End	1461
Name	OJ990526_13.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	648	End	957
GI	none	Score	89
Exons	648..737, 838..957, 846..953		

Seq. No.	52300	Seq. ID	OJ990526_13.0419.C49
Gene No.	110512	Strand	-
Start	170	End	232
Name	OJ990526_13.0419.C49.o1.gs	Method	GENSCAN
Start	170	End	232
GI	none	Score	.54
Exons	170..232		

Seq. No.	52301	Seq. ID	OJ990526_13.0419.C51
Gene No.	110513	Strand	-
Start	112	End	542
Name	OJ990526_13.0419.C51.o1.gs	Method	GENSCAN
Start	112	End	542
GI	none	Score	.98
Exons	112..246, 446..542		

Seq. No.	52302	Seq. ID	OJ990526_13.0419.C53
Gene No.	110514	Strand	+
Start	1	End	1052
Name	OJ990526_13.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	1052
GI	3068713	Score	305
Exons	1..259, 342..557, 963..1052		
GI Descrip.	(AF049236) unknown [Arabidopsis thaliana]		

Seq. No.	52302	Seq. ID	OJ990526_13.0419.C53
Gene No.	110514	Strand	+
Start	1	End	1052
Name	OJ990526_13.0419.C53.o1.gs	Method	GENSCAN
Start	74	End	557
GI	none	Score	.63
Exons	74..259, 342..557		

Seq. No.	52302	Seq. ID	OJ990526_13.0419.C53

Gene No.	110514	Strand	+
Start	1	End	1052
Name	OJ990526_13.0419.C53.o1.ts	Method	TBLASTX:Soybean
Start	74	End	569
GI	none	Score	99
Exons	74..157, 76..225, 184..219, 312..422, 339..419, 456..569		

Seq. No.	52302	Seq. ID	OJ990526_13.0419.C53
Gene No.	110514	Strand	+
Start	1	End	1052
Name	OJ990526_13.0419.C53.o1.tc	Method	TBLASTX:Cress
Start	74	End	566
GI	none	Score	88
Exons	74..157, 76..243, 145..255, 333..473, 456..566		

Seq. No.	52302	Seq. ID	OJ990526_13.0419.C53
Gene No.	110514	Strand	+
Start	1	End	1052
Name	OJ990526_13.0419.C53.o1.gp	Method	AAT/GAP
Start	135	End	265
GI	11688_1.R1084	Score	197
Exons	135..265		
GI Descrip.	'3068713 6.0e-54 (AF049236) unknown [Arabidopsis thaliana]'		

Seq. No.	52303	Seq. ID	OJ990526_13.0419.C57
Gene No.	110516	Strand	+
Start	1	End	1672
Name	OJ990526_13.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	1672
GI	2342724	Score	97
Exons	1..71, 254..322, 1510..1672		
GI Descrip.	(AC002341) unknown protein [Arabidopsis thaliana]		

Seq. No.	52303	Seq. ID	OJ990526_13.0419.C57
Gene No.	110516	Strand	+
Start	1	End	1672
Name	OJ990526_13.0419.C57.o1.gs	Method	GENSCAN
Start	194	End	1600
GI	none	Score	.44
Exons	194..319, 1456..1600		

Seq. No.	52303	Seq. ID	OJ990526_13.0419.C57
Gene No.	110517	Strand	-
Start	1572	End	1868
Name	OJ990526_13.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	254	End	1646
GI	none	Score	85
Exons	254..319, 254..319, 1299..1397, 1300..1398, 1305..1397, 1315..1398, 1482..1541, 1483..1542, 1483..1542, 1485..1562, 1535..1645, 1537..1590, 1539..1646		

Seq. No.	52303	Seq. ID	OJ990526_13.0419.C57
Gene No.	110517	Strand	-
Start	1572	End	1868
Name	OJ990526_13.0419.C57.o1.gp	Method	AAT/GAP
Start	1572	End	1868
GI	none	Score	590

Exons	1572..1868		
Seq. No.	52304	Seq. ID	OJ990526_13.0419.C58
Gene No.	110518	Strand	-
Start	303	End	635
Name	OJ990526_13.0419.C58.o1.gs	Method	GENSCAN
Start	303	End	635
GI	none	Score	.46
Exons	303..389, 518..635		
Seq. No.	52305	Seq. ID	OJ990526_13.0419.C66
Gene No.	110519	Strand	+
Start	36	End	782
Name	OJ990526_13.0419.C66.o1.gs	Method	GENSCAN
Start	36	End	782
GI	none	Score	.93
Exons	36..117, 688..782		
Seq. No.	52306	Seq. ID	OJ990526_13.0419.C72
Gene No.	110520	Strand	+
Start	382	End	499
Name	OJ990526_13.0419.C72.o1.gs	Method	GENSCAN
Start	382	End	499
GI	none	Score	.7
Exons	382..499		
Seq. No.	52306	Seq. ID	OJ990526_13.0419.C72
Gene No.	110521	Strand	-
Start	1007	End	1348
Name	OJ990526_13.0419.C72.o2.gp	Method	AAT/GAP
Start	1007	End	1348
GI	none	Score	635
Exons	1007..1348		
Seq. No.	52307	Seq. ID	OJ990526_13.0419.C74
Gene No.	110522	Strand	+
Start	191	End	299
Name	OJ990526_13.0419.C74.o1.gp	Method	AAT/GAP
Start	191	End	299
GI	uC-osflcyp065d05b1	Score	187
Exons	191..299		
GI Descrip.	'6041757/gb\|AC011806.1\|AC011806 2.0e-12 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		
Seq. No.	52308	Seq. ID	OJ990526_13.0419.C75
Gene No.	110523	Strand	-
Start	1	End	1856
Name	OJ990526_13.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	1856
GI	6691218	Score	85
Exons	1..72, 749..863, 974..1036, 1768..1856		
GI Descrip.	(AC007508) F1K23.6 [Arabidopsis thaliana]		
Seq. No.	52308	Seq. ID	OJ990526_13.0419.C75
Gene No.	110523	Strand	-
Start	1	End	1856

Name	OJ990526_13.0419.C75.o1.gs	Method	GENSCAN
Start	491	End	1679
GI	none	Score	.62
Exons	491..630, 771..863, 974..1036, 1533..1679		

Seq. No.	52308	Seq. ID	OJ990526_13.0419.C75
Gene No.	110523	Strand	-
Start	1	End	1856
Name	OJ990526_13.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	765	End	1024
GI	none	Score	112
Exons	765..863, 769..852, 771..857, 967..1023, 968..1024, 971..1024		

Seq. No.	52308	Seq. ID	OJ990526_13.0419.C75
Gene No.	110523	Strand	-
Start	1	End	1856
Name	OJ990526_13.0419.C75.o1.gp	Method	AAT/GAP
Start	767	End	849
GI	17389_1.R1084	Score	96
Exons	767..849		
GI Descrip.	'6006869/gb\|AAF00645.1\|AC009540_22 2.0e-34 (AC009540) putative cationic amino acid transporter [Arabidopsis thaliana]'		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o1.np	Method	AAT/NAP
Start	1	End	2241
GI	7487148	Score	221
Exons	1..51, 250..306, 444..571, 722..809, 2209..2241		
GI Descrip.	hypothetical protein T18E12.21 - Arabidopsis thaliana gi\|3548818\|gb\|AAC34490.1\| (AC005313) unknown protein [Arabidopsis thaliana]		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	184	End	809
GI	none	Score	70
Exons	184..309, 254..310, 257..307, 421..498, 426..572, 445..561, 726..809		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	218	End	815
GI	none	Score	80
Exons	218..307, 256..309, 426..581, 444..569, 445..570, 726..815, 726..809, 728..811		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o1.gs	Method	GENSCAN
Start	937	End	2114

GI	none	Score	.85
Exons	937..944, 1287..1415, 1694..1848, 2062..2114		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o2.ts	Method	TBLASTX:Soybean
Start	2036	End	2200
GI	none	Score	167
Exons	2036..2200, 2062..2199, 2084..2200		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o2.tm	Method	TBLASTX:Maize
Start	2049	End	2200
GI	none	Score	81
Exons	2049..2144, 2054..2200, 2059..2199		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o1.tw	Method	TBLASTX:Wheat
Start	2059	End	2200
GI	none	Score	141
Exons	2059..2199, 2060..2200		

Seq. No.	52309	Seq. ID	OJ990526_13.0419.C76
Gene No.	110524	Strand	-
Start	1	End	2241
Name	OJ990526_13.0419.C76.o2.np	Method	AAT/NAP
Start	2060	End	2241
GI	7436354	Score	155
Exons	2060..2241		
GI Descrip.	probable plasma membrane H+-ATPase - rice gi\|633110\|dbj\|BAA06629.1\| (D31843) plasma membrane H+-ATPase [Oryza sativa]		

Seq. No.	52310	Seq. ID	OJ990526_13.0419.C77
Gene No.	110525	Strand	+
Start	544	End	672
Name	OJ990526_13.0419.C77.o1.gs	Method	GENSCAN
Start	544	End	672
GI	none	Score	.58
Exons	544..672		

Seq. No.	52311	Seq. ID	OJ990526_05.0419.C2
Gene No.	110526	Strand	+
Start	575	End	1467
Name	OJ990526_05.0419.C2.o1.np	Method	AAT/NAP
Start	575	End	1467
GI	7488857	Score	313
Exons	575..613, 797..1467		
GI Descrip.	hypothetical protein - fava bean (fragment) gi\|2522230\|dbj\|BAA22788.1\| (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	52311	Seq. ID	OJ990526_05.0419.C2
Gene No.	110526	Strand	+
Start	575	End	1467
Name	OJ990526_05.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	788	End	1158
GI	none	Score	108
Exons	788..955, 974..1024, 1036..1158, 1044..1157		

Seq. No.	52311	Seq. ID	OJ990526_05.0419.C2
Gene No.	110526	Strand	+
Start	575	End	1467
Name	OJ990526_05.0419.C2.o1.gs	Method	GENSCAN
Start	816	End	1356
GI	none	Score	.67
Exons	816..1356		

Seq. No.	52312	Seq. ID	OJ990526_05.0419.C3
Gene No.	110527	Strand	+
Start	3	End	701
Name	OJ990526_05.0419.C3.o1.gs	Method	GENSCAN
Start	3	End	701
GI	none	Score	.69
Exons	3..150, 230..631, 670..701		

Seq. No.	52312	Seq. ID	OJ990526_05.0419.C3
Gene No.	110528	Strand	+
Start	1093	End	1660
Name	OJ990526_05.0419.C3.o1.gp	Method	AAT/GAP
Start	1093	End	1660
GI	4879016	Score	873
Exons	1093..1660		
GI Descrip.	6041757/gb\|AC011806.1\|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	52312	Seq. ID	OJ990526_05.0419.C3
Gene No.	110529	Strand	-
Start	1	End	1744
Name	OJ990526_05.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1744
GI	4417306	Score	127
Exons	1..21, 150..534, 1716..1744		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	52312	Seq. ID	OJ990526_05.0419.C3
Gene No.	110530	Strand	-
Start	2162	End	2268
Name	OJ990526_05.0419.C3.o2.gs	Method	GENSCAN
Start	2162	End	2268
GI	none	Score	.69
Exons	2162..2268		

Seq. No.	52313	Seq. ID	OJ990526_05.0419.C4
Gene No.	110531	Strand	-
Start	627	End	842
Name	OJ990526_05.0419.C4.o1.gs	Method	GENSCAN

Start	627	End	842
GI	none	Score	.98
Exons	627..842		

Seq. No.	52314	Seq. ID	OJ990526_05.0419.C8
Gene No.	110532	Strand	+
Start	52	End	1278
Name	OJ990526_05.0419.C8.o1.np	Method	AAT/NAP
Start	52	End	1278
GI	5922620	Score	282
Exons	52..105, 143..282, 1074..1278		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6016853\|dbj\|BAA85196.1\| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52315	Seq. ID	OJ990526_05.0419.C9
Gene No.	110533	Strand	-
Start	1	End	1452
Name	OJ990526_05.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1334
GI	6539570	Score	103
Exons	1..48, 904..970, 1129..1334		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	52315	Seq. ID	OJ990526_05.0419.C9
Gene No.	110533	Strand	-
Start	1	End	1452
Name	OJ990526_05.0419.C9.o1.gs	Method	GENSCAN
Start	381	End	1452
GI	none	Score	.68
Exons	381..537, 758..785, 1407..1452		

Seq. No.	52315	Seq. ID	OJ990526_05.0419.C9
Gene No.	110534	Strand	-
Start	1461	End	1538
Name	OJ990526_05.0419.C9.o2.np	Method	AAT/NAP
Start	1461	End	1538
GI	6630699	Score	87
Exons	1461..1538		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	52316	Seq. ID	OJ990526_05.0419.C11
Gene No.	110535	Strand	+
Start	605	End	922
Name	OJ990526_05.0419.C11.o1.np	Method	AAT/NAP
Start	605	End	922
GI	6539588	Score	265
Exons	605..922		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52317	Seq. ID	OJ990526_05.0419.C12
Gene No.	110536	Strand	+
Start	707	End	1125

Name	OJ990526_05.0419.C12.o1.gp	Method	AAT/GAP
Start	707	End	1125
GI	4879016	Score	688
Exons	707..1125		
GI Descrip.	6041757/gb\|AC011806.1\|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	52318	Seq. ID	OJ990526_05.0419.C13
Gene No.	110537	Strand	+
Start	1566	End	1868
Name	OJ990526_05.0419.C13.o1.gs	Method	GENSCAN
Start	1566	End	1868
GI	none	Score	.95
Exons	1566..1868		

Seq. No.	52318	Seq. ID	OJ990526_05.0419.C13
Gene No.	110538	Strand	+
Start	3086	End	5915
Name	OJ990526_05.0419.C13.o1.np	Method	AAT/NAP
Start	3086	End	3838
GI	7248393	Score	471
Exons	3086..3439, 3542..3838		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	52318	Seq. ID	OJ990526_05.0419.C13
Gene No.	110538	Strand	+
Start	3086	End	5915
Name	OJ990526_05.0419.C13.o2.gs	Method	GENSCAN
Start	3086	End	5915
GI	none	Score	.45
Exons	3086..3838, 3990..5915		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	3282
GI	7248394	Score	1324
Exons	1..483, 751..1801, 3260..3282		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o5.ts	Method	TBLASTX:Soybean
Start	453	End	818
GI	none	Score	136
Exons	453..677, 464..643, 678..818		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550

Name	OJ990526_05.0419.C14.o1.gs	Method	GENSCAN
Start	468	End	3544
GI	none	Score	.7
Exons	468..865, 1418..1451, 1955..2136, 2317..2456, 2790..3544		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	615	End	1018
GI	none	Score	81
Exons	615..671, 620..661, 666..926, 674..925, 908..1018, 917..1018		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	669	End	887
GI	none	Score	269
Exons	669..887, 674..886		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	888	End	1348
GI	none	Score	60
Exons	888..926, 888..926, 908..1348, 914..1276, 1036..1347		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	1034	End	1504
GI	none	Score	205
Exons	1034..1315, 1072..1320, 1316..1504, 1360..1491		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o5.tw	Method	TBLASTX:Wheat
Start	1036	End	1414
GI	none	Score	186
Exons	1036..1350, 1037..1354, 1316..1414		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	1655	End	2065
GI	none	Score	152
Exons	1655..1792, 1657..1788, 1736..1792, 1814..2065		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o3.tw	Method	TBLASTX:Wheat

Start	1700	End	2098
GI	none	Score	85
Exons	1700..1789, 1829..2098		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o4.tw	Method	TBLASTX:Wheat
Start	2360	End	2749
GI	none	Score	173
Exons	2360..2662, 2693..2749		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o3.np	Method	AAT/NAP
Start	2385	End	3550
GI	629693	Score	538
Exons	2385..3550		
GI Descrip.	probable integrase - common tobacco (fragment) gi\|530742\|emb\|CAA56791\| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o4.ts	Method	TBLASTX:Soybean
Start	2435	End	2716
GI	none	Score	223
Exons	2435..2716, 2500..2715		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	2516	End	2896
GI	none	Score	82
Exons	2516..2674, 2672..2896		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	3077	End	3484
GI	none	Score	226
Exons	3077..3484, 3085..3483		

Seq. No.	52319	Seq. ID	OJ990526_05.0419.C14
Gene No.	110539	Strand	+
Start	1	End	3550
Name	OJ990526_05.0419.C14.o3.ts	Method	TBLASTX:Soybean
Start	3260	End	3537
GI	none	Score	240
Exons	3260..3505, 3260..3427, 3262..3432, 3469..3537		

Seq. No.	52320	Seq. ID	OJ990526_05.0419.C15
Gene No.	110540	Strand	+
Start	3122	End	7059

Name	OJ990526_05.0419.C15.o1.np	Method	AAT/NAP
Start	3122	End	6558
GI	6623974	Score	105
Exons	3122..3155, 4778..4993, 6491..6558		
GI Descrip.	(AC007505) Similar to Athila ORF1 [Arabidopsis thaliana]		

Seq. No.	52320	Seq. ID	OJ990526_05.0419.C15
Gene No.	110540	Strand	+
Start	3122	End	7059
Name	OJ990526_05.0419.C15.o2.gs	Method	GENSCAN
Start	4857	End	7059
GI	none	Score	.73
Exons	4857..5087, 5240..5351, 5624..5833, 6403..6678, 6731..7059		

Seq. No.	52320	Seq. ID	OJ990526_05.0419.C15
Gene No.	110541	Strand	+
Start	10947	End	12875
Name	OJ990526_05.0419.C15.o2.np	Method	AAT/NAP
Start	10947	End	12875
GI	5917664	Score	285
Exons	10947..11062, 11967..12875		
GI Descrip.	(AF159296) extensin-like protein [Lycopersicon esculentum]		

Seq. No.	52320	Seq. ID	OJ990526_05.0419.C15
Gene No.	110542	Strand	-
Start	273	End	3176
Name	OJ990526_05.0419.C15.o1.gs	Method	GENSCAN
Start	273	End	3176
GI	none	Score	.75
Exons	273..663, 742..825, 926..985, 1061..1480, 1855..2688, 3126..3176		

Seq. No.	52320	Seq. ID	OJ990526_05.0419.C15
Gene No.	110543	Strand	-
Start	12520	End	12918
Name	OJ990526_05.0419.C15.o4.gs	Method	GENSCAN
Start	12520	End	12918
GI	none	Score	.55
Exons	12520..12918		

Seq. No.	52321	Seq. ID	OJ990526_05.0419.C16
Gene No.	110544	Strand	+
Start	618	End	703
Name	OJ990526_05.0419.C16.o1.gs	Method	GENSCAN
Start	618	End	703
GI	none	Score	.64
Exons	618..703		

Seq. No.	52321	Seq. ID	OJ990526_05.0419.C16
Gene No.	110545	Strand	-
Start	1496	End	1982
Name	OJ990526_05.0419.C16.o1.gp	Method	AAT/GAP
Start	1422	End	1534
GI	uC-osflcyp088b12b1	Score	131
Exons	1422..1534		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	52321	Seq. ID	OJ990526_05.0419.C16
Gene No.	110545	Strand	-
Start	1496	End	1982
Name	OJ990526_05.0419.C16.o2.gs	Method	GENSCAN
Start	1496	End	1982
GI	none	Score	.71
Exons	1496..1555, 1887..1982		

Seq. No.	52322	Seq. ID	OJ990526_05.0419.C17
Gene No.	110546	Strand	+
Start	2163	End	7178
Name	OJ990526_05.0419.C17.o1.gs	Method	GENSCAN
Start	2163	End	5803
GI	none	Score	.53
Exons	2163..2320, 2393..2549, 3139..3275, 3583..3640, 4120..4320, 5448..5647, 5657..5803		

Seq. No.	52322	Seq. ID	OJ990526_05.0419.C17
Gene No.	110546	Strand	+
Start	2163	End	7178
Name	OJ990526_05.0419.C17.o2.np	Method	AAT/NAP
Start	5536	End	7178
GI	6705984	Score	124
Exons	5536..5725, 6978..7178		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	52322	Seq. ID	OJ990526_05.0419.C17
Gene No.	110546	Strand	+
Start	2163	End	7178
Name	OJ990526_05.0419.C17.o2.gs	Method	GENSCAN
Start	6809	End	6995
GI	none	Score	.49
Exons	6809..6995		

Seq. No.	52322	Seq. ID	OJ990526_05.0419.C17
Gene No.	110547	Strand	-
Start	1	End	1481
Name	OJ990526_05.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1481
GI	6815109	Score	108
Exons	1..128, 1459..1481		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	1666
GI	6705984	Score	960
Exons	1..1666		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	3	End	389

GI	none	Score	55
Exons	3..35, 65..196, 66..197, 201..389, 203..358		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o1.gs	Method	GENSCAN
Start	128	End	1657
GI	none	Score	.56
Exons	128..307, 484..680, 786..1657		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	770	End	1216
GI	none	Score	238
Exons	770..1036, 773..1003, 784..1044, 1045..1140, 1049..1216		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	821	End	1231
GI	none	Score	197
Exons	821..1078, 1073..1231		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	998	End	1243
GI	none	Score	217
Exons	998..1243, 1015..1221		

Seq. No.	52323	Seq. ID	OJ990526_05.0419.C18
Gene No.	110548	Strand	+
Start	1	End	1666
Name	OJ990526_05.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	1475	End	1618
GI	none	Score	202
Exons	1475..1618, 1477..1617		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1374
GI	6705984	Score	1611
Exons	1..1374		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o3.tw	Method	TBLASTX:Wheat
Start	2	End	276

GI	none	Score	54
Exons	2..70, 21..266, 21..77, 22..276, 108..275		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	216	End	590
GI	none	Score	60
Exons	216..395, 216..503, 217..507, 504..590, 506..589		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	312	End	653
GI	none	Score	97
Exons	312..479, 312..503, 313..507, 504..653, 506..652		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	403	End	761
GI	none	Score	149
Exons	403..507, 411..500, 504..761, 506..760		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	654	End	953
GI	none	Score	235
Exons	654..953		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	792	End	1181
GI	none	Score	269
Exons	792..1040, 792..1031, 797..1033, 847..1179, 857..1075, 1107..1181		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o1.gs	Method	GENSCAN
Start	999	End	1759
GI	none	Score	.67
Exons	999..1164, 1343..1759		

Seq. No.	52324	Seq. ID	OJ990526_05.0419.C19
Gene No.	110549	Strand	+
Start	1	End	1759
Name	OJ990526_05.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	1110	End	1316

GI	none	Score	248
Exons	1110..1316, 1116..1307, 1133..1315		

Seq. No.	52325	Seq. ID	OJ990526_05.0419.C20
Gene No.	110550	Strand	+
Start	25	End	2302
Name	OJ990526_05.0419.C20.o1.gs	Method	GENSCAN
Start	25	End	2302
GI	none	Score	.53
Exons	25..164, 1999..2302		

Seq. No.	52325	Seq. ID	OJ990526_05.0419.C20
Gene No.	110551	Strand	-
Start	3360	End	4068
Name	OJ990526_05.0419.C20.o2.gs	Method	GENSCAN
Start	3360	End	4068
GI	none	Score	.4
Exons	3360..3441, 3972..4068		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040
Name	OJ990526_05.0419.C21.o1.gs	Method	GENSCAN
Start	149	End	3029
GI	none	Score	.57
Exons	149..195, 284..375, 1443..1659, 1963..2171, 2263..2448, 2674..3029		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040
Name	OJ990526_05.0419.C21.o1.gp	Method	AAT/GAP
Start	1817	End	2751
GI	none	Score	1148
Exons	1817..2171, 2263..2448, 2674..2751		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040
Name	OJ990526_05.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	1973	End	2394
GI	none	Score	49
Exons	1973..2008, 1975..2034, 1977..2096, 2008..2169, 2019..2078, 2045..2170, 2057..2170, 2181..2306, 2316..2393, 2320..2394		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040
Name	OJ990526_05.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	1976	End	2326
GI	none	Score	225
Exons	1976..2170, 1980..2093, 1981..2169, 2004..2171, 2256..2306, 2258..2326, 2261..2305, 2263..2325		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040

Name	OJ990526_05.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2729	End	3040
GI	none	Score	395
Exons	2729..3040, 2733..3038		

Seq. No.	52326	Seq. ID	OJ990526_05.0419.C21
Gene No.	110552	Strand	+
Start	149	End	3040
Name	OJ990526_05.0419.C21.o2.gp	Method	AAT/GAP
Start	2744	End	3040
GI	18257_1.R1084	Score	502
Exons	2744..3040		
GI Descrip.	'6041757/gb\|AC011806.1\|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	52327	Seq. ID	OJ990526_05.0419.C22
Gene No.	110553	Strand	+
Start	7	End	267
Name	OJ990526_05.0419.C22.o1.gs	Method	GENSCAN
Start	7	End	267
GI	none	Score	.98
Exons	7..267		

Seq. No.	52327	Seq. ID	OJ990526_05.0419.C22
Gene No.	110554	Strand	-
Start	1606	End	2136
Name	OJ990526_05.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	1	End	273
GI	none	Score	346
Exons	1..252, 1..60, 2..61, 107..154, 123..230, 145..273		

Seq. No.	52327	Seq. ID	OJ990526_05.0419.C22
Gene No.	110554	Strand	-
Start	1606	End	2136
Name	OJ990526_05.0419.C22.o2.gs	Method	GENSCAN
Start	1606	End	2136
GI	none	Score	.66
Exons	1606..2136		

Seq. No.	52328	Seq. ID	OJ990526_05.0419.C23
Gene No.	110555	Strand	+
Start	1	End	738
Name	OJ990526_05.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	738
GI	6907087	Score	426
Exons	1..364, 410..738		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52328	Seq. ID	OJ990526_05.0419.C23
Gene No.	110555	Strand	+
Start	1	End	738
Name	OJ990526_05.0419.C23.o1.gs	Method	GENSCAN
Start	167	End	620
GI	none	Score	.43

Exons	167..303, 492..620		
Seq. No.	52329	Seq. ID	OJ990526_05.0419.C25
Gene No.	110556	Strand	-
Start	1516	End	5324
Name	OJ990526_05.0419.C25.o1.gs	Method	GENSCAN
Start	1516	End	5324
GI	none	Score	.51
Exons	1516..2019, 3459..3727, 4308..4507, 4873..5067, 5194..5324		
Seq. No.	52329	Seq. ID	OJ990526_05.0419.C25
Gene No.	110556	Strand	-
Start	1516	End	5324
Name	OJ990526_05.0419.C25.o1.np	Method	AAT/NAP
Start	1683	End	4691
GI	7485592	Score	211
Exons	1683..1729, 4244..4691		
GI Descrip.	hypothetical protein F17A8.10 - Arabidopsis thaliana gi\|4538896\|emb\|CAB39633.1\| (AL049482) putative protein [Arabidopsis thaliana] gi\|7267661\|emb\|CAB78089.1\| (AL161515) putative protein [Arabidopsis thaliana]		
Seq. No.	52329	Seq. ID	OJ990526_05.0419.C25
Gene No.	110557	Strand	-
Start	5261	End	9869
Name	OJ990526_05.0419.C25.o2.np	Method	AAT/NAP
Start	5261	End	7950
GI	5690095	Score	258
Exons	5261..5641, 5676..6007, 7929..7950		
GI Descrip.	(AJ238507) transposase related protein [Zea mays]		
Seq. No.	52329	Seq. ID	OJ990526_05.0419.C25
Gene No.	110557	Strand	-
Start	5261	End	9869
Name	OJ990526_05.0419.C25.o2.gs	Method	GENSCAN
Start	5680	End	9869
GI	none	Score	.59
Exons	5680..6423, 6585..6933, 8094..8188, 8349..8552, 8647..8797, 8914..9110, 9810..9869		
Seq. No.	52330	Seq. ID	OJ990526_05.0419.C26
Gene No.	110558	Strand	+
Start	223	End	518
Name	OJ990526_05.0419.C26.o1.gs	Method	GENSCAN
Start	223	End	518
GI	none	Score	.44
Exons	223..518		
Seq. No.	52330	Seq. ID	OJ990526_05.0419.C26
Gene No.	110559	Strand	-
Start	1396	End	2971
Name	OJ990526_05.0419.C26.o2.gs	Method	GENSCAN
Start	1396	End	2971
GI	none	Score	.6
Exons	1396..1593, 2414..2522, 2892..2971		
Seq. No.	52331	Seq. ID	OJ990526_05.0419.C27

Gene No.	110560	Strand	-
Start	1	End	421
Name	OJ990526_05.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	421
GI	4417306	Score	154
Exons	1..421		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	52331	Seq. ID	OJ990526_05.0419.C27
Gene No.	110561	Strand	-
Start	740	End	873
Name	OJ990526_05.0419.C27.o1.gs	Method	GENSCAN
Start	740	End	873
GI	none	Score	.54
Exons	740..873		

Seq. No.	52332	Seq. ID	OJ990526_05.0419.C31
Gene No.	110562	Strand	+
Start	1	End	839
Name	OJ990526_05.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	839
GI	4680186	Score	205
Exons	1..30, 653..839		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52332	Seq. ID	OJ990526_05.0419.C31
Gene No.	110562	Strand	+
Start	1	End	839
Name	OJ990526_05.0419.C31.o1.gs	Method	GENSCAN
Start	303	End	454
GI	none	Score	.55
Exons	303..454		

Seq. No.	52333	Seq. ID	OJ990526_05.0419.C33
Gene No.	110563	Strand	-
Start	742	End	918
Name	OJ990526_05.0419.C33.o1.gs	Method	GENSCAN
Start	742	End	918
GI	none	Score	1
Exons	742..918		

Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110564	Strand	+
Start	1	End	833
Name	OJ990526_05.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	833
GI	3650036	Score	345
Exons	1..519, 569..833		
GI Descrip.	(AC005396) Ac-like transposase [Arabidopsis thaliana]		

Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110564	Strand	+
Start	1	End	833
Name	OJ990526_05.0419.C36.o1.gs	Method	GENSCAN
Start	139	End	570
GI	none	Score	.4

Exons	139..570		
Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110565	Strand	+
Start	3143	End	3453
Name	OJ990526_05.0419.C36.o1.gp	Method	AAT/GAP
Start	3143	End	3453
GI	72524_1.R1084	Score	414
Exons	3143..3453		
GI Descrip.	'5091496/dbj\|AB023482.2\|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		
Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110566	Strand	+
Start	3406	End	6307
Name	OJ990526_05.0419.C36.o2.np	Method	AAT/NAP
Start	3406	End	6307
GI	7106512	Score	84
Exons	3406..3466, 3539..3591, 6289..6307		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110567	Strand	-
Start	2205	End	6232
Name	OJ990526_05.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	1	End	344
GI	none	Score	391
Exons	1..342, 1..336, 3..344		
Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110567	Strand	-
Start	2205	End	6232
Name	OJ990526_05.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	388	End	667
GI	none	Score	112
Exons	388..525, 388..525, 527..667, 535..618		
Seq. No.	52334	Seq. ID	OJ990526_05.0419.C36
Gene No.	110567	Strand	-
Start	2205	End	6232
Name	OJ990526_05.0419.C36.o2.gs	Method	GENSCAN
Start	2205	End	6232
GI	none	Score	.82
Exons	2205..2747, 3164..3215, 3501..3711, 3764..3857, 3933..4044, 4367..4397, 6202..6232		
Seq. No.	52335	Seq. ID	OJ990526_05.0419.C37
Gene No.	110568	Strand	+
Start	444	End	2395
Name	OJ990526_05.0419.C37.o1.gs	Method	GENSCAN
Start	444	End	2395
GI	none	Score	.46
Exons	444..614, 1909..2150, 2266..2395		
Seq. No.	52335	Seq. ID	OJ990526_05.0419.C37
Gene No.	110569	Strand	-

Start	1908	End	1995
Name	OJ990526_05.0419.C37.o1.gp	Method	AAT/GAP
Start	1908	End	1995
GI	none	Score	120
Exons	1908..1995		

Seq. No.	52336	Seq. ID	OJ990526_05.0419.C38
Gene No.	110570	Strand	-
Start	253	End	1946
Name	OJ990526_05.0419.C38.o1.gs	Method	GENSCAN
Start	253	End	1317
GI	none	Score	.84
Exons	253..464, 634..721, 1107..1145, 1233..1317		

Seq. No.	52336	Seq. ID	OJ990526_05.0419.C38
Gene No.	110570	Strand	-
Start	253	End	1946
Name	OJ990526_05.0419.C38.o1.np	Method	AAT/NAP
Start	1149	End	1946
GI	6983859	Score	684
Exons	1149..1946		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	52336	Seq. ID	OJ990526_05.0419.C38
Gene No.	110570	Strand	-
Start	253	End	1946
Name	OJ990526_05.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	1265	End	1856
GI	none	Score	224
Exons	1265..1369, 1372..1698, 1403..1699, 1446..1856, 1762..1854		

Seq. No.	52336	Seq. ID	OJ990526_05.0419.C38
Gene No.	110570	Strand	-
Start	253	End	1946
Name	OJ990526_05.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	1411	End	1880
GI	none	Score	189
Exons	1411..1746, 1412..1753, 1601..1756, 1734..1844, 1758..1880, 1765..1863		

Seq. No.	52337	Seq. ID	OJ990526_05.0419.C40
Gene No.	110571	Strand	+
Start	1067	End	2268
Name	OJ990526_05.0419.C40.o1.gs	Method	GENSCAN
Start	1067	End	2268
GI	none	Score	.7
Exons	1067..1211, 1369..1454, 1969..2048, 2145..2268		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110572	Strand	+
Start	1209	End	3230
Name	OJ990526_05.0419.C41.o2.np	Method	AAT/NAP
Start	1209	End	3230
GI	4680186	Score	147
Exons	1209..1250, 3020..3230		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.np	Method	AAT/NAP
Start	290	End	1654
GI	6983859	Score	1849
Exons	290..1654		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o3.tw	Method	TBLASTX:Wheat
Start	305	End	635
GI	none	Score	135
Exons	305..634, 354..635		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o3.tm	Method	TBLASTX:Maize
Start	317	End	461
GI	none	Score	98
Exons	317..457, 323..442, 366..461		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.gs	Method	GENSCAN
Start	375	End	3721
GI	none	Score	.57
Exons	375..1151, 1211..1707, 2933..3075, 3641..3721		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	485	End	1080
GI	none	Score	63
Exons	485..655, 485..667, 495..668, 673..747, 741..920, 778..894, 843..920, 918..1076, 929..1072, 937..1080		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	635	End	1258
GI	none	Score	185
Exons	635..673, 673..747, 705..1166, 741..1232, 937..1203, 1214..1258		

Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o2.tm	Method	TBLASTX:Maize
Start	1128	End	1419

GI	none	Score	96
Exons	1128..1226, 1132..1227, 1224..1418, 1232..1417, 1234..1419		
Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	1223	End	1466
GI	none	Score	167
Exons	1223..1465, 1230..1466		
Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	1241	End	1558
GI	none	Score	96
Exons	1241..1384, 1242..1382, 1385..1558		
Seq. No.	52338	Seq. ID	OJ990526_05.0419.C41
Gene No.	110573	Strand	-
Start	375	End	3721
Name	OJ990526_05.0419.C41.o2.tw	Method	TBLASTX:Wheat
Start	1264	End	1783
GI	none	Score	136
Exons	1264..1539, 1265..1783, 1269..1634, 1622..1783		
Seq. No.	52339	Seq. ID	OJ990526_05.0419.C43
Gene No.	110574	Strand	+
Start	1691	End	1996
Name	OJ990526_05.0419.C43.o1.gs	Method	GENSCAN
Start	1691	End	1996
GI	none	Score	.89
Exons	1691..1996		
Seq. No.	52339	Seq. ID	OJ990526_05.0419.C43
Gene No.	110575	Strand	-
Start	265	End	832
Name	OJ990526_05.0419.C43.o1.gp	Method	AAT/GAP
Start	265	End	832
GI	4879016	Score	1013
Exons	265..832		
GI Descrip.	6041757/gb\|AC011806.1\|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		
Seq. No.	52339	Seq. ID	OJ990526_05.0419.C43
Gene No.	110576	Strand	-
Start	1372	End	2133
Name	OJ990526_05.0419.C43.o1.np	Method	AAT/NAP
Start	1372	End	2133
GI	6523547	Score	152
Exons	1372..2133		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		
Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46

Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	828
GI	4416302	Score	882
Exons	1..828		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o1.gs	Method	GENSCAN
Start	43	End	370
GI	none	Score	.42
Exons	43..247, 285..370		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o2.tm	Method	TBLASTX:Maize
Start	48	End	231
GI	none	Score	189
Exons	48..185, 49..231, 61..231		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	55	End	486
GI	none	Score	105
Exons	55..204, 229..486, 240..368		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	232	End	828
GI	none	Score	667
Exons	232..828, 240..746, 520..789		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	250	End	828
GI	none	Score	298
Exons	250..639, 354..596, 658..828, 672..743		

Seq. No.	52340	Seq. ID	OJ990526_05.0419.C46
Gene No.	110577	Strand	+
Start	1	End	828
Name	OJ990526_05.0419.C46.o2.tw	Method	TBLASTX:Wheat
Start	523	End	825
GI	none	Score	88
Exons	523..648, 652..774, 667..825		

Seq. No.	52341	Seq. ID	OJ990526_05.0419.C47

Gene No.	110578	Strand	+
Start	51	End	211
Name	OJ990526_05.0419.C47.o1.gs	Method	GENSCAN
Start	51	End	211
GI	none	Score	.8
Exons	51..211		

Seq. No.	52342	Seq. ID	OJ990526_06.0419.C2
Gene No.	110579	Strand	-
Start	1	End	832
Name	OJ990526_06.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	832
GI	6522552	Score	147
Exons	1..178, 239..316, 465..567, 787..832		
GI Descrip.	(AL132967) putative protein [Arabidopsis thaliana]		

Seq. No.	52342	Seq. ID	OJ990526_06.0419.C2
Gene No.	110579	Strand	-
Start	1	End	832
Name	OJ990526_06.0419.C2.o1.gs	Method	GENSCAN
Start	14	End	600
GI	none	Score	.63
Exons	14..143, 249..316, 465..600		

Seq. No.	52342	Seq. ID	OJ990526_06.0419.C2
Gene No.	110579	Strand	-
Start	1	End	832
Name	OJ990526_06.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	59	End	523
GI	none	Score	66
Exons	59..145, 63..143, 238..318, 240..323, 461..490, 462..491, 487..522, 488..523		

Seq. No.	52343	Seq. ID	OJ990526_06.0419.C3
Gene No.	110580	Strand	-
Start	179	End	376
Name	OJ990526_06.0419.C3.o1.gs	Method	GENSCAN
Start	179	End	376
GI	none	Score	.72
Exons	179..376		

Seq. No.	52344	Seq. ID	OJ990526_06.0419.C5
Gene No.	110581	Strand	+
Start	1068	End	1151
Name	OJ990526_06.0419.C5.o1.gs	Method	GENSCAN
Start	1068	End	1151
GI	none	Score	.81
Exons	1068..1151		

Seq. No.	52345	Seq. ID	OJ990526_06.0419.C6
Gene No.	110582	Strand	-
Start	202	End	921
Name	OJ990526_06.0419.C6.o1.gs	Method	GENSCAN
Start	202	End	921
GI	none	Score	.91
Exons	202..341, 900..921		

Seq. No.	52346	Seq. ID	OJ990526_06.0419.C8
Gene No.	110583	Strand	+
Start	1456	End	1638
Name	OJ990526_06.0419.C8.o1.gs	Method	GENSCAN
Start	1456	End	1638
GI	none	Score	.69
Exons	1456..1638		

Seq. No.	52346	Seq. ID	OJ990526_06.0419.C8
Gene No.	110584	Strand	-
Start	251	End	1676
Name	OJ990526_06.0419.C8.o1.np	Method	AAT/NAP
Start	251	End	1676
GI	5852084	Score	93
Exons	251..339, 1605..1676		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52347	Seq. ID	OJ990526_06.0419.C11
Gene No.	110585	Strand	-
Start	1	End	500
Name	OJ990526_06.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	323
GI	uC-osflcyp126a04b1	Score	363
Exons	1..98, 218..323		
GI Descrip.	'2695941/emb\|CAA10989\| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		

Seq. No.	52347	Seq. ID	OJ990526_06.0419.C11
Gene No.	110585	Strand	-
Start	1	End	500
Name	OJ990526_06.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	500
GI	7486871	Score	55
Exons	1..41, 207..500		
GI Descrip.	hypothetical protein T12G13.150 - Arabidopsis thaliana gi\|5262204\|emb\|CAB45801.1\| (AL080252) putative protein [Arabidopsis thaliana] gi\|7267472\|emb\|CAB77956.1\| (AL161511) putative protein [Arabidopsis thaliana]		

Seq. No.	52347	Seq. ID	OJ990526_06.0419.C11
Gene No.	110585	Strand	-
Start	1	End	500
Name	OJ990526_06.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	26	End	335
GI	none	Score	73
Exons	26..100, 35..100, 39..107, 215..334, 219..335		

Seq. No.	52348	Seq. ID	OJ990526_06.0419.C14
Gene No.	110586	Strand	-
Start	547	End	606
Name	OJ990526_06.0419.C14.o1.gs	Method	GENSCAN
Start	547	End	606
GI	none	Score	.43
Exons	547..606		

Seq. No.	52349	Seq. ID	OJ990526_06.0419.C15
Gene No.	110587	Strand	-

Start	595	End	699
Name	OJ990526_06.0419.C15.o1.gs	Method	GENSCAN
Start	595	End	699
GI	none	Score	.68
Exons	595..699		

Seq. No.	52350	Seq. ID	OJ990526_06.0419.C16
Gene No.	110588	Strand	-
Start	84	End	272
Name	OJ990526_06.0419.C16.o1.gs	Method	GENSCAN
Start	84	End	272
GI	none	Score	.53
Exons	84..272		

Seq. No.	52351	Seq. ID	OJ990526_06.0419.C19
Gene No.	110589	Strand	-
Start	298	End	419
Name	OJ990526_06.0419.C19.o1.gs	Method	GENSCAN
Start	298	End	419
GI	none	Score	.71
Exons	298..419		

Seq. No.	52352	Seq. ID	OJ990526_06.0419.C20
Gene No.	110590	Strand	+
Start	246	End	399
Name	OJ990526_06.0419.C20.o1.gs	Method	GENSCAN
Start	246	End	399
GI	none	Score	.48
Exons	246..399		

Seq. No.	52353	Seq. ID	OJ990526_06.0419.C21
Gene No.	110591	Strand	+
Start	758	End	2554
Name	OJ990526_06.0419.C21.o1.gs	Method	GENSCAN
Start	758	End	2554
GI	none	Score	.58
Exons	758..911, 2349..2554		

Seq. No.	52354	Seq. ID	OJ990526_06.0419.C22
Gene No.	110592	Strand	+
Start	1	End	925
Name	OJ990526_06.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	925
GI	6522938	Score	134
Exons	1..30, 665..925		
GI Descrip.	(AL132978) putative protein [Arabidopsis thaliana] gi\|6523028\|emb\|CAB62296.1\| (AL132976) putative protein [Arabidopsis thaliana]		

Seq. No.	52354	Seq. ID	OJ990526_06.0419.C22
Gene No.	110592	Strand	+
Start	1	End	925
Name	OJ990526_06.0419.C22.o1.gs	Method	GENSCAN
Start	623	End	808
GI	none	Score	.94
Exons	623..808		

Seq. No.	52355	Seq. ID	OJ990526_06.0419.C27
Gene No.	110593	Strand	-
Start	274	End	1004
Name	OJ990526_06.0419.C27.o1.gs	Method	GENSCAN
Start	274	End	1004
GI	none	Score	.49
Exons	274..350, 851..1004		

Seq. No.	52356	Seq. ID	OJ990526_06.0419.C29
Gene No.	110594	Strand	-
Start	1	End	263
Name	OJ990526_06.0419.C29.o1.gp	Method	AAT/GAP
Start	1	End	263
GI	LIB3431-047-P1-N1-H10	Score	501
Exons	1..263		
GI Descrip.	'5670155/gb\|AF161269.1\|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	52356	Seq. ID	OJ990526_06.0419.C29
Gene No.	110595	Strand	-
Start	630	End	1674
Name	OJ990526_06.0419.C29.o2.gp	Method	AAT/GAP
Start	472	End	749
GI	2311117	Score	473
Exons	472..749		

Seq. No.	52356	Seq. ID	OJ990526_06.0419.C29
Gene No.	110595	Strand	-
Start	630	End	1674
Name	OJ990526_06.0419.C29.o1.gs	Method	GENSCAN
Start	630	End	1674
GI	none	Score	.98
Exons	630..746, 1585..1674		

Seq. No.	52357	Seq. ID	OJ990526_06.0419.C32
Gene No.	110596	Strand	-
Start	1299	End	1347
Name	OJ990526_06.0419.C32.o1.gs	Method	GENSCAN
Start	1299	End	1347
GI	none	Score	.68
Exons	1299..1347		

Seq. No.	52358	Seq. ID	OJ990526_06.0419.C33
Gene No.	110597	Strand	-
Start	151	End	187
Name	OJ990526_06.0419.C33.o1.gs	Method	GENSCAN
Start	151	End	187
GI	none	Score	.8
Exons	151..187		

Seq. No.	52359	Seq. ID	OJ990526_06.0419.C34
Gene No.	110598	Strand	+
Start	1925	End	2713
Name	OJ990526_06.0419.C34.o1.gs	Method	GENSCAN
Start	1925	End	2713
GI	none	Score	.9
Exons	1925..2713		

Seq. No.	52359	Seq. ID	OJ990526_06.0419.C34
Gene No.	110598	Strand	+
Start	1925	End	2713
Name	OJ990526_06.0419.C34.o1.np	Method	AAT/NAP
Start	2056	End	2671
GI	6522933	Score	382
Exons	2056..2671		
GI Descrip.	(AL132978) putative protein [Arabidopsis thaliana]		

Seq. No.	52360	Seq. ID	OJ990526_06.0419.C35
Gene No.	110599	Strand	-
Start	758	End	3954
Name	OJ990526_06.0419.C35.o1.gs	Method	GENSCAN
Start	758	End	3343
GI	none	Score	.79
Exons	758..1001, 1175..1604, 2627..2770, 3252..3343		

Seq. No.	52360	Seq. ID	OJ990526_06.0419.C35
Gene No.	110599	Strand	-
Start	758	End	3954
Name	OJ990526_06.0419.C35.o1.np	Method	AAT/NAP
Start	834	End	1850
GI	7441829	Score	124
Exons	834..1010, 1252..1555, 1674..1850		
GI Descrip.	proline-rich cell wall protein - upland cotton gi\|435039\|gb\|AAA79360.1\| (L17308) proline-rich cell wall protein [Gossypium hirsutum]		

Seq. No.	52360	Seq. ID	OJ990526_06.0419.C35
Gene No.	110599	Strand	-
Start	758	End	3954
Name	OJ990526_06.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	2619	End	3954
GI	none	Score	131
Exons	2619..2771, 2622..2759, 2624..2770, 3250..3345, 3261..3344, 3436..3516, 3645..3731, 3649..3714, 3828..3935, 3844..3954, 3845..3931		

Seq. No.	52360	Seq. ID	OJ990526_06.0419.C35
Gene No.	110599	Strand	-
Start	758	End	3954
Name	OJ990526_06.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	2619	End	3932
GI	none	Score	101
Exons	2619..2771, 2624..2770, 2634..2780, 3250..3345, 3261..3344, 3637..3714, 3645..3731, 3828..3932, 3845..3931		

Seq. No.	52361	Seq. ID	OJ990526_06.0419.C36
Gene No.	110600	Strand	-
Start	140	End	519
Name	OJ990526_06.0419.C36.o1.gs	Method	GENSCAN
Start	140	End	519
GI	none	Score	.99
Exons	140..256, 408..519		

Seq. No.	52362	Seq. ID	OJ990526_06.0419.C37

Gene No.	110601	Strand	-
Start	393	End	3721
Name	OJ990526_06.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	257	End	3559
GI	none	Score	60
Exons	257..316, 261..311, 393..452, 803..937, 3509..3559	456..485, 617..685, 790..927,	

Seq. No.	52362	Seq. ID	OJ990526_06.0419.C37
Gene No.	110601	Strand	-
Start	393	End	3721
Name	OJ990526_06.0419.C37.o1.gs	Method	GENSCAN
Start	393	End	3721
GI	none	Score	.93
Exons	393..469, 625..706, 790..927,	2442..2483, 3518..3721	

Seq. No.	52362	Seq. ID	OJ990526_06.0419.C37
Gene No.	110601	Strand	-
Start	393	End	3721
Name	OJ990526_06.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	411	End	927
GI	none	Score	66
Exons	411..485, 608..709, 624..707,	790..927, 803..925	

Seq. No.	52362	Seq. ID	OJ990526_06.0419.C37
Gene No.	110601	Strand	-
Start	393	End	3721
Name	OJ990526_06.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	426	End	3565
GI	none	Score	47
Exons	426..485, 606..707, 790..834, 3518..3565	791..847, 826..924, 827..937,	

Seq. No.	52363	Seq. ID	OJ990526_06.0419.C42
Gene No.	110602	Strand	+
Start	559	End	1111
Name	OJ990526_06.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	200	End	722
GI	none	Score	70
Exons	200..283, 232..279, 312..371, 384..461, 467..625, 468..620, 663..722	312..368, 382..423, 384..461, 469..648, 616..648, 661..699,	

Seq. No.	52363	Seq. ID	OJ990526_06.0419.C42
Gene No.	110602	Strand	+
Start	559	End	1111
Name	OJ990526_06.0419.C42.o1.gs	Method	GENSCAN
Start	559	End	722
GI	none	Score	.6
Exons	559..722		

Seq. No.	52363	Seq. ID	OJ990526_06.0419.C42
Gene No.	110602	Strand	+
Start	559	End	1111
Name	OJ990526_06.0419.C42.o1.gp	Method	AAT/GAP
Start	612	End	1111
GI	none	Score	989

Exons	612..1111		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	718	End	924
GI	none	Score	202
Exons	718..873, 723..872, 724..873, 871..885, 886..921, 886..924		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	1089	End	1910
GI	none	Score	168
Exons	1089..1277, 1090..1308, 1149..1265, 1193..1315, 1854..1910, 1859..1909		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.np	Method	AAT/NAP
Start	1090	End	3007
GI	1931653	Score	429
Exons	1090..1311, 1644..1989, 2920..3007		
GI Descrip.	(U95973) unknown protein [Arabidopsis thaliana]		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	1090	End	1308
GI	none	Score	215
Exons	1090..1308, 1152..1259		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	1090	End	1343
GI	none	Score	256
Exons	1090..1308, 1152..1343		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.gs	Method	GENSCAN
Start	1092	End	2423
GI	none	Score	.74
Exons	1092..1311, 1644..1906, 2139..2211, 2265..2423		
Seq. No.	52364	Seq. ID	OJ990526_06.0419.C43
Gene No.	110603	Strand	+
Start	1090	End	3007
Name	OJ990526_06.0419.C43.o1.gp	Method	AAT/GAP
Start	1647	End	1869

GI	427391	Score	405
Exons	1647..1869		
Seq. No.	52365	Seq. ID	OJ990526_06.0419.C44
Gene No.	110604	Strand	+
Start	1092	End	1604
Name	OJ990526_06.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	607	End	1137
GI	none	Score	55
Exons	607..675, 787..900, 798..893, 898..1137		
Seq. No.	52365	Seq. ID	OJ990526_06.0419.C44
Gene No.	110604	Strand	+
Start	1092	End	1604
Name	OJ990526_06.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	616	End	1104
GI	none	Score	63
Exons	616..675, 787..903, 798..893, 895..1104, 916..1002		
Seq. No.	52365	Seq. ID	OJ990526_06.0419.C44
Gene No.	110604	Strand	+
Start	1092	End	1604
Name	OJ990526_06.0419.C44.o1.gp	Method	AAT/GAP
Start	1092	End	1604
GI	2311117	Score	358
Exons	1092..1290, 1582..1604		
Seq. No.	52366	Seq. ID	OJ990526_06.0419.C45
Gene No.	110605	Strand	+
Start	58	End	113
Name	OJ990526_06.0419.C45.o1.gp	Method	AAT/GAP
Start	58	End	113
GI	LIB3431-047-P1-N1-H10	Score	86
Exons	58..113		
GI Descrip.	'5670155/gb\|AF161269.1\|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		
Seq. No.	52366	Seq. ID	OJ990526_06.0419.C45
Gene No.	110606	Strand	-
Start	39	End	1941
Name	OJ990526_06.0419.C45.o1.np	Method	AAT/NAP
Start	39	End	1941
GI	6522552	Score	482
Exons	39..122, 300..395, 486..638, 755..1042, 1125..1267, 1351..1579, 1643..1703, 1852..1941		
GI Descrip.	(AL132967) putative protein [Arabidopsis thaliana]		
Seq. No.	52366	Seq. ID	OJ990526_06.0419.C45
Gene No.	110606	Strand	-
Start	39	End	1941
Name	OJ990526_06.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	66	End	632
GI	none	Score	72
Exons	66..125, 273..398, 310..396, 484..597, 486..632, 502..612		
Seq. No.	52366	Seq. ID	OJ990526_06.0419.C45
Gene No.	110606	Strand	-

Start	39	End	1941
Name	OJ990526_06.0419.C45.o1.gs	Method	GENSCAN
Start	300	End	1933
GI	none	Score	.83
Exons	300..395, 755..849, 996..1056, 1139..1267, 1375..1530, 1636..1703, 1852..1933		

Seq. No.	52366	Seq. ID	OJ990526_06.0419.C45
Gene No.	110606	Strand	-
Start	39	End	1941
Name	OJ990526_06.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	932	End	1910
GI	none	Score	152
Exons	932..1063, 937..1068, 938..1063, 1133..1210, 1139..1249, 1140..1313, 1447..1530, 1454..1531, 1625..1705, 1627..1710, 1848..1877, 1849..1878, 1874..1909, 1875..1910		

Seq. No.	52367	Seq. ID	OJ990526_06.0419.C46
Gene No.	110607	Strand	-
Start	1	End	88
Name	OJ990526_06.0419.C46.o1.gp	Method	AAT/GAP
Start	1	End	88
GI	none	Score	126
Exons	1..88		

Seq. No.	52367	Seq. ID	OJ990526_06.0419.C46
Gene No.	110608	Strand	-
Start	70	End	928
Name	OJ990526_06.0419.C46.o1.gs	Method	GENSCAN
Start	70	End	928
GI	none	Score	.46
Exons	70..245, 631..757, 815..928		

Seq. No.	52368	Seq. ID	OJ990526_06.0419.C48
Gene No.	110609	Strand	+
Start	1105	End	1218
Name	OJ990526_06.0419.C48.o1.gs	Method	GENSCAN
Start	1105	End	1218
GI	none	Score	.73
Exons	1105..1218		

Seq. No.	52369	Seq. ID	OJ990526_06.0419.C50
Gene No.	110610	Strand	+
Start	475	End	898
Name	OJ990526_06.0419.C50.o1.gs	Method	GENSCAN
Start	475	End	898
GI	none	Score	.72
Exons	475..739, 789..898		

Seq. No.	52369	Seq. ID	OJ990526_06.0419.C50
Gene No.	110611	Strand	-
Start	2041	End	2572
Name	OJ990526_06.0419.C50.o2.gs	Method	GENSCAN
Start	2041	End	2572
GI	none	Score	.87
Exons	2041..2225, 2557..2572		

Seq. No.	52370	Seq. ID	OJ990526_06.0419.C54
Gene No.	110612	Strand	+
Start	150	End	239
Name	OJ990526_06.0419.C54.o1.gs	Method	GENSCAN
Start	150	End	239
GI	none	Score	.44
Exons	150..239		

Seq. No.	52371	Seq. ID	OJ990526_06.0419.C55
Gene No.	110613	Strand	+
Start	333	End	1435
Name	OJ990526_06.0419.C55.o1.gs	Method	GENSCAN
Start	333	End	1435
GI	none	Score	.42
Exons	333..396, 1329..1435		

Seq. No.	52371	Seq. ID	OJ990526_06.0419.C55
Gene No.	110614	Strand	-
Start	689	End	868
Name	OJ990526_06.0419.C55.o1.gp	Method	AAT/GAP
Start	689	End	868
GI	2798151	Score	143
Exons	689..757, 800..868		
GI Descrip.	5670155/gb\|AF161269.1\|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	52372	Seq. ID	OJ990526_06.0419.C56
Gene No.	110615	Strand	-
Start	1	End	1519
Name	OJ990526_06.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	1519
GI	7485231	Score	230
Exons	1..19, 949..1519		
GI Descrip.	hypothetical protein A_IG002N01.30 - Arabidopsis thaliana (fragment) gi\|2191151\|gb\|AAB61038.1\| (AF007269) contains similarity to membrane associated salt-inducible protein [Arabidopsis thaliana]		

Seq. No.	52372	Seq. ID	OJ990526_06.0419.C56
Gene No.	110615	Strand	-
Start	1	End	1519
Name	OJ990526_06.0419.C56.o1.gs	Method	GENSCAN
Start	740	End	1461
GI	none	Score	.81
Exons	740..1461		

Seq. No.	52372	Seq. ID	OJ990526_06.0419.C56
Gene No.	110615	Strand	-
Start	1	End	1519
Name	OJ990526_06.0419.C56.o1.tc	Method	TBLASTX:Cress
Start	947	End	1220
GI	none	Score	126
Exons	947..1219, 960..1220		

Seq. No.	52372	Seq. ID	OJ990526_06.0419.C56
Gene No.	110615	Strand	-
Start	1	End	1519

Name	OJ990526_06.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	947	End	1285
GI	none	Score	148
Exons	947..1285, 960..1262		

Seq. No.	52372	Seq. ID	OJ990526_06.0419.C56
Gene No.	110615	Strand	-
Start	1	End	1519
Name	OJ990526_06.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	947	End	1228
GI	none	Score	230
Exons	947..1228		

Seq. No.	52373	Seq. ID	OJ990526_06.0419.C57
Gene No.	110616	Strand	+
Start	18	End	338
Name	OJ990526_06.0419.C57.o1.gs	Method	GENSCAN
Start	18	End	338
GI	none	Score	.96
Exons	18..338		

Seq. No.	52374	Seq. ID	OJ990526_06.0419.C58
Gene No.	110617	Strand	-
Start	2987	End	5847
Name	OJ990526_06.0419.C58.o1.gp	Method	AAT/GAP
Start	2724	End	4113
GI	45288_1.R1084	Score	1049
Exons	2724..2996, 3116..3220, 3310..3360, 3624..3689, 3969..4113		
GI Descrip.	'4678385/emb\|CAB41117.1\| 3.0e-26 (AL049656) putative protein [Arabidopsis thaliana]'		

Seq. No.	52374	Seq. ID	OJ990526_06.0419.C58
Gene No.	110617	Strand	-
Start	2987	End	5847
Name	OJ990526_06.0419.C58.o2.gs	Method	GENSCAN
Start	2987	End	5847
GI	none	Score	.54
Exons	2987..3037, 3116..3220, 3969..4073, 4763..4810, 5420..5603, 5694..5847		

Seq. No.	52374	Seq. ID	OJ990526_06.0419.C58
Gene No.	110617	Strand	-
Start	2987	End	5847
Name	OJ990526_06.0419.C58.o1.np	Method	AAT/NAP
Start	3113	End	5699
GI	7487743	Score	667
Exons	3113..3220, 3310..3360, 3624..3689, 3969..4129, 4297..4393, 4763..4810, 5420..5699		
GI Descrip.	hypothetical protein T6G15.140 - Arabidopsis thaliana gi\|4678385\|emb\|CAB41117.1\| (AL049656) putative protein [Arabidopsis thaliana] gi\|7268062\|emb\|CAB78401.1\| (AL161536) putative protein [Arabidopsis thaliana]		

Seq. No.	52374	Seq. ID	OJ990526_06.0419.C58
Gene No.	110617	Strand	-
Start	2987	End	5847
Name	OJ990526_06.0419.C58.o1.tm	Method	TBLASTX:Maize

Start	5494	End	5838
GI	none	Score	124
Exons	5494..5601, 5495..5602, 5496..5603, 5689..5838, 5695..5835		

Seq. No.	52375	Seq. ID	OJ990526_06.0419.C59
Gene No.	110618	Strand	+
Start	560	End	1617
Name	OJ990526_06.0419.C59.o1.gs	Method	GENSCAN
Start	560	End	1617
GI	none	Score	.45
Exons	560..609, 686..848, 1581..1617		

Seq. No.	52376	Seq. ID	OJ990526_06.0419.C60
Gene No.	110619	Strand	+
Start	1038	End	1094
Name	OJ990526_06.0419.C60.o1.gs	Method	GENSCAN
Start	1038	End	1094
GI	none	Score	.62
Exons	1038..1094		

Seq. No.	52376	Seq. ID	OJ990526_06.0419.C60
Gene No.	110620	Strand	-
Start	106	End	1608
Name	OJ990526_06.0419.C60.o1.np	Method	AAT/NAP
Start	106	End	1608
GI	6721516	Score	160
Exons	106..156, 1361..1608		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	52377	Seq. ID	OJ990526_06.0419.C61
Gene No.	110621	Strand	+
Start	719	End	5835
Name	OJ990526_06.0419.C61.o1.gs	Method	GENSCAN
Start	719	End	5717
GI	none	Score	.8
Exons	719..851, 2493..2734, 3625..3730, 5558..5717		

Seq. No.	52377	Seq. ID	OJ990526_06.0419.C61
Gene No.	110621	Strand	+
Start	719	End	5835
Name	OJ990526_06.0419.C61.o1.gp	Method	AAT/GAP
Start	5603	End	5835
GI	uC-osflcyp126a04b1	Score	411
Exons	5603..5835		
GI Descrip.	'2695941/emb\|CAA10989\| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		

Seq. No.	52377	Seq. ID	OJ990526_06.0419.C61
Gene No.	110622	Strand	-
Start	1	End	2798
Name	OJ990526_06.0419.C61.o1.np	Method	AAT/NAP
Start	1	End	2798
GI	6721516	Score	609
Exons	1..418, 809..1050, 2739..2798		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	52378	Seq. ID	OJ990526_06.0419.C62

Gene No.	110623	Strand	+
Start	1	End	539
Name	OJ990526_06.0419.C62.o1.gp	Method	AAT/GAP
Start	1	End	539
GI	10072_1.R1084	Score	274
Exons	1..82, 450..539		
GI Descrip.	'5262204/emb\|CAB45801.1\| 2.0e-25 (AL080252) putative protein [Arabidopsis thaliana]'		

Seq. No.	52378	Seq. ID	OJ990526_06.0419.C62
Gene No.	110624	Strand	+
Start	450	End	1286
Name	OJ990526_06.0419.C62.o1.gs	Method	GENSCAN
Start	450	End	1199
GI	none	Score	.89
Exons	450..701, 1177..1199		

Seq. No.	52378	Seq. ID	OJ990526_06.0419.C62
Gene No.	110624	Strand	+
Start	450	End	1286
Name	OJ990526_06.0419.C62.o2.gp	Method	AAT/GAP
Start	665	End	1286
GI	none	Score	826
Exons	665..701, 880..1286		

Seq. No.	52379	Seq. ID	OJ990526_06.0419.C63
Gene No.	110625	Strand	+
Start	255	End	1078
Name	OJ990526_06.0419.C63.o1.np	Method	AAT/NAP
Start	255	End	1078
GI	7513394	Score	92
Exons	255..369, 825..918, 1023..1078		
GI Descrip.	transcription regulator NC2 alpha chain - human gi\|1491710\|emb\|CAA65358.1\| (X96506) alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]		

Seq. No.	52379	Seq. ID	OJ990526_06.0419.C63
Gene No.	110625	Strand	+
Start	255	End	1078
Name	OJ990526_06.0419.C63.o1.gp	Method	AAT/GAP
Start	297	End	918
GI	34342_1.R1084	Score	268
Exons	297..369, 825..918		
GI Descrip.	'1491710/emb\|CAA65358\| 2.0e-22 (X96506) alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]'		

Seq. No.	52379	Seq. ID	OJ990526_06.0419.C63
Gene No.	110625	Strand	+
Start	255	End	1078
Name	OJ990526_06.0419.C63.o1.gs	Method	GENSCAN
Start	297	End	918
GI	none	Score	.73
Exons	297..369, 825..918		

Seq. No.	52380	Seq. ID	OJ990526_06.0419.C68
Gene No.	110626	Strand	+
Start	155	End	715

Name	OJ990526_06.0419.C68.o1.gs	Method	GENSCAN
Start	155	End	715
GI	none	Score	.94
Exons	155..173, 631..715		

Seq. No.	52380	Seq. ID	OJ990526_06.0419.C68
Gene No.	110627	Strand	-
Start	614	End	960
Name	OJ990526_06.0419.C68.o1.gp	Method	AAT/GAP
Start	614	End	960
GI	568478	Score	690
Exons	614..960		

Seq. No.	52381	Seq. ID	OJ990526_06.0419.C69
Gene No.	110628	Strand	-
Start	967	End	4054
Name	OJ990526_06.0419.C69.o1.tc	Method	TBLASTX:Cress
Start	3	End	1054
GI	none	Score	88
Exons	3..62, 30..137, 748..864, 749..844, 967..1044, 974..1054		

Seq. No.	52381	Seq. ID	OJ990526_06.0419.C69
Gene No.	110628	Strand	-
Start	967	End	4054
Name	OJ990526_06.0419.C69.o1.gs	Method	GENSCAN
Start	967	End	4054
GI	none	Score	.99
Exons	967..1154, 1767..1954, 2881..2966, 3908..4054		

Seq. No.	52382	Seq. ID	OJ990526_06.0419.C71
Gene No.	110629	Strand	-
Start	151	End	4057
Name	OJ990526_06.0419.C71.o1.gp	Method	AAT/GAP
Start	151	End	1718
GI	none	Score	570
Exons	151..278, 1024..1104, 1592..1718		

Seq. No.	52382	Seq. ID	OJ990526_06.0419.C71
Gene No.	110629	Strand	-
Start	151	End	4057
Name	OJ990526_06.0419.C71.o1.gs	Method	GENSCAN
Start	1024	End	4057
GI	none	Score	.98
Exons	1024..1104, 1592..1723, 3324..3452, 3992..4057		

Seq. No.	52383	Seq. ID	OJ990526_06.0419.C73
Gene No.	110630	Strand	-
Start	553	End	751
Name	OJ990526_06.0419.C73.o1.np	Method	AAT/NAP
Start	553	End	751
GI	5852084	Score	84
Exons	553..751		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52384	Seq. ID	OJ990526_06.0419.C75
Gene No.	110631	Strand	-
Start	661	End	1282

Name	OJ990526_06.0419.C75.o1.gp	Method	AAT/GAP
Start	661	End	752
GI	34342_1.R1084	Score	146
Exons	661..752		
GI Descrip.	'1491710/emb\|CAA65358\| 2.0e-22 (X96506) alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]'		

Seq. No.	52384	Seq. ID	OJ990526_06.0419.C75
Gene No.	110631	Strand	-
Start	661	End	1282
Name	OJ990526_06.0419.C75.o1.gs	Method	GENSCAN
Start	661	End	1282
GI	none	Score	.53
Exons	661..754, 1210..1282		

Seq. No.	52385	Seq. ID	OJ990526_06.0419.C76
Gene No.	110632	Strand	+
Start	2560	End	2991
Name	OJ990526_06.0419.C76.o2.gp	Method	AAT/GAP
Start	2560	End	2991
GI	none	Score	782
Exons	2560..2991		

Seq. No.	52385	Seq. ID	OJ990526_06.0419.C76
Gene No.	110633	Strand	-
Start	146	End	1458
Name	OJ990526_06.0419.C76.o1.gp	Method	AAT/GAP
Start	146	End	1458
GI	568758	Score	281
Exons	146..223, 1363..1458		
GI Descrip.	1491710/emb\|CAA65358\| 2.0e-12 (X96506) alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]		

Seq. No.	52385	Seq. ID	OJ990526_06.0419.C76
Gene No.	110633	Strand	-
Start	146	End	1458
Name	OJ990526_06.0419.C76.o1.gs	Method	GENSCAN
Start	151	End	1395
GI	none	Score	.88
Exons	151..223, 1363..1395		

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o1.gs	Method	GENSCAN
Start	26	End	1026
GI	none	Score	.6
Exons	26..213, 292..368, 446..793, 913..1026		

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o1.gp	Method	AAT/GAP
Start	89	End	584
GI	10072_1.R1084	Score	595
Exons	89..213, 292..368, 446..584		
GI Descrip.	'5262204/emb\|CAB45801.1\| 2.0e-25 (AL080252) putative protein		

[Arabidopsis thaliana]'

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o2.tm	Method	TBLASTX:Maize
Start	89	End	660
GI	none	Score	133
Exons	89..208, 89..208, 91..219, 292..375, 292..369, 294..377, 294..371, 505..660, 516..596		

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o1.np	Method	AAT/NAP
Start	90	End	1266
GI	7486871	Score	249
Exons	90..213, 292..368, 458..783, 909..1018, 1179..1266		
GI Descrip.	hypothetical protein T12G13.150 - Arabidopsis thaliana gi\|5262204\|emb\|CAB45801.1\| (AL080252) putative protein [Arabidopsis thaliana] gi\|7267472\|emb\|CAB77956.1\| (AL161511) putative protein [Arabidopsis thaliana]		

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o2.gp	Method	AAT/GAP
Start	630	End	1018
GI	uC-osflcyp126a04b1	Score	493
Exons	630..793, 913..1018		
GI Descrip.	'2695941/emb\|CAA10989\| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		

Seq. No.	52386	Seq. ID	OJ990526_06.0419.C77
Gene No.	110634	Strand	-
Start	26	End	1266
Name	OJ990526_06.0419.C77.o1.tm	Method	TBLASTX:Maize
Start	665	End	1030
GI	none	Score	73
Exons	665..724, 721..795, 730..795, 734..802, 910..1029, 914..1030		

Seq. No.	52387	Seq. ID	OJ990526_06.0419.C82
Gene No.	110635	Strand	-
Start	44	End	573
Name	OJ990526_06.0419.C82.o1.gs	Method	GENSCAN
Start	44	End	573
GI	none	Score	.43
Exons	44..186, 554..573		

Seq. No.	52388	Seq. ID	OJ990526_06.0419.C85
Gene No.	110636	Strand	-
Start	503	End	3214
Name	OJ990526_06.0419.C85.o1.gs	Method	GENSCAN
Start	503	End	3214
GI	none	Score	.43
Exons	503..664, 2842..2882, 2992..3214		

Seq. No.	52389	Seq. ID	OJ990526_06.0419.C86
Gene No.	110637	Strand	+
Start	2805	End	3035
Name	OJ990526_06.0419.C86.o1.gp	Method	AAT/GAP
Start	2805	End	3035
GI	none	Score	412
Exons	2805..3035		

Seq. No.	52390	Seq. ID	OJ990526_06.0419.C87
Gene No.	110638	Strand	-
Start	61	End	297
Name	OJ990526_06.0419.C87.o1.gp	Method	AAT/GAP
Start	61	End	297
GI	none	Score	418
Exons	61..297		

Seq. No.	52391	Seq. ID	OJ990526_06.0419.C88
Gene No.	110639	Strand	+
Start	1040	End	2168
Name	OJ990526_06.0419.C88.o2.np	Method	AAT/NAP
Start	1040	End	2168
GI	7340920	Score	149
Exons	1040..1084, 2053..2168		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52391	Seq. ID	OJ990526_06.0419.C88
Gene No.	110640	Strand	-
Start	928	End	2033
Name	OJ990526_06.0419.C88.o1.np	Method	AAT/NAP
Start	928	End	2033
GI	7340920	Score	123
Exons	928..1043, 1994..2033		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110641	Strand	+
Start	1839	End	4485
Name	OJ990416_08.0419.C1.o2.np	Method	AAT/NAP
Start	1839	End	4485
GI	5922623	Score	156
Exons	1839..1919, 2441..2587, 2775..2846, 3147..3266, 4387..4485		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110642	Strand	+
Start	5522	End	7216
Name	OJ990416_08.0419.C1.o3.np	Method	AAT/NAP
Start	5522	End	7216
GI	7248415	Score	343
Exons	5522..5600, 6481..6619, 7011..7216		
GI Descrip.	(AP001389) ESTs AU077873(S1878),D40121(S1878) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana 60S ribosomal protein L13 (P41127) [Oryza sativa]		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1

Gene No.	110642	Strand	+
Start	5522	End	7216
Name	OJ990416_08.0419.C1.o1.gp	Method	AAT/GAP
Start	7022	End	7166
GI	3763385	Score	200
Exons	7022..7166		
GI Descrip.	2695941/emb\|CAA10989\| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110643	Strand	-
Start	1	End	1764
Name	OJ990416_08.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1764
GI	7228457	Score	2402
Exons	1..1331, 1393..1764		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110644	Strand	-
Start	5076	End	5504
Name	OJ990416_08.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	718	End	1107
GI	none	Score	94
Exons	718..975, 755..991, 958..1056, 959..1039, 1063..1107		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110644	Strand	-
Start	5076	End	5504
Name	OJ990416_08.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	820	End	1068
GI	none	Score	107
Exons	820..1068, 821..1066		

Seq. No.	52392	Seq. ID	OJ990416_08.0419.C1
Gene No.	110644	Strand	-
Start	5076	End	5504
Name	OJ990416_08.0419.C1.o3.gs	Method	GENSCAN
Start	5076	End	5504
GI	none	Score	.67
Exons	5076..5504		

Seq. No.	52393	Seq. ID	OJ990416_08.0419.C2
Gene No.	110645	Strand	+
Start	254	End	2282
Name	OJ990416_08.0419.C2.o1.gs	Method	GENSCAN
Start	254	End	2061
GI	none	Score	.46
Exons	254..270, 571..719, 786..975, 984..1692, 1707..1849, 1953..2061		

Seq. No.	52393	Seq. ID	OJ990416_08.0419.C2
Gene No.	110645	Strand	+
Start	254	End	2282
Name	OJ990416_08.0419.C2.o1.np	Method	AAT/NAP
Start	590	End	2282

GI	6907089	Score	2233
Exons	590..1849, 1953..2282		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	52394	Seq. ID	OJ990416_08.0419.C4
Gene No.	110646	Strand	-
Start	460	End	1340
Name	OJ990416_08.0419.C4.o1.gs	Method	GENSCAN
Start	460	End	1340
GI	none	Score	.66
Exons	460..554, 1235..1340		
Seq. No.	52395	Seq. ID	OJ990416_08.0419.C7
Gene No.	110647	Strand	-
Start	47	End	856
Name	OJ990416_08.0419.C7.o1.gs	Method	GENSCAN
Start	47	End	856
GI	none	Score	.63
Exons	47..856		
Seq. No.	52396	Seq. ID	OJ990416_08.0419.C8
Gene No.	110648	Strand	
Start	49	End	393
Name	OJ990416_08.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	49	End	357
GI	none	Score	89
Exons	49..264, 53..265, 271..357		
Seq. No.	52396	Seq. ID	OJ990416_08.0419.C8
Gene No.	110648	Strand	
Start	49	End	393
Name	OJ990416_08.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	49	End	393
GI	none	Score	104
Exons	49..264, 116..265, 298..393		
Seq. No.	52397	Seq. ID	OJ990416_08.0419.C9
Gene No.	110649	Strand	+
Start	659	End	800
Name	OJ990416_08.0419.C9.o1.gs	Method	GENSCAN
Start	659	End	800
GI	none	Score	.52
Exons	659..800		
Seq. No.	52398	Seq. ID	OJ990416_08.0419.C11
Gene No.	110650	Strand	-
Start	170	End	1118
Name	OJ990416_08.0419.C11.o1.gs	Method	GENSCAN
Start	170	End	1118
GI	none	Score	.41
Exons	170..334, 1028..1118		
Seq. No.	52399	Seq. ID	OJ990416_08.0419.C13
Gene No.	110651	Strand	-
Start	926	End	1601
Name	OJ990416_08.0419.C13.o1.gs	Method	GENSCAN
Start	926	End	1601

GI	none	Score	.78
Exons	926..992, 1233..1601		
Seq. No.	52400	Seq. ID	OJ990416_08.0419.C17
Gene No.	110652	Strand	+
Start	2	End	706
Name	OJ990416_08.0419.C17.o1.gs	Method	GENSCAN
Start	2	End	706
GI	none	Score	.95
Exons	2..706		
Seq. No.	52400	Seq. ID	OJ990416_08.0419.C17
Gene No.	110652	Strand	+
Start	2	End	706
Name	OJ990416_08.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	132	End	544
GI	none	Score	73
Exons	132..191, 133..543, 134..544		
Seq. No.	52401	Seq. ID	OJ990416_08.0419.C18
Gene No.	110653	Strand	-
Start	458	End	1094
Name	OJ990416_08.0419.C18.o1.gs	Method	GENSCAN
Start	458	End	1094
GI	none	Score	.9
Exons	458..480, 1010..1094		
Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	489	End	3638
GI	none	Score	59
Exons	489..632, 1583..1675, 1595..1693, 1611..1688, 1858..1983, 1858..1983, 1869..1985, 2248..2310, 2409..2489, 2419..2493, 2579..2635, 2586..2636, 2949..3083, 2954..3085, 3203..3262, 3204..3266, 3208..3297, 3435..3602, 3435..3638, 3442..3636		
Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.gp	Method	AAT/GAP
Start	1289	End	4027
GI	25_1.R1084	Score	2143
Exons	1289..1691, 1870..1982, 2248..2310, 2409..2486, 2585..2638, 2954..3082, 3204..3296, 3435..3633, 3967..4027		
GI Descrip.	'2780746/dbj\|BAA24364\| 0.0e+00 (AB005290) plastid RNA polymerase sigma factor [Oryza sativa]'		
Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	1580	End	3638
GI	none	Score	100
Exons	1580..1693, 1620..1688, 1869..1985, 1873..1986, 2248..2310, 2258..2293, 2409..2489, 2419..2493, 2579..2635, 2580..2621,		

2949..3083, 2954..3085, 2992..3099, 3204..3266, 3208..3297, 3433..3636, 3435..3638, 3442..3636

Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.np	Method	AAT/NAP
Start	1586	End	4027
GI	2780746	Score	1257
Exons	1586..1691, 1870..1982, 2248..2310, 2409..2486, 2585..2638, 2954..3082, 3204..3296, 3435..3633, 3967..4027		
GI Descrip.	(AB005290) plastid RNA polymerase sigma factor [Oryza sativa]		

Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.gs	Method	GENSCAN
Start	1593	End	3633
GI	none	Score	.86
Exons	1593..1691, 2248..2310, 2585..2638, 2954..3082, 3204..3296, 3435..3633		

Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1917	End	2640
GI	none	Score	84
Exons	1917..1985, 1918..1983, 2246..2308, 2247..2309, 2248..2310, 2248..2310, 2409..2489, 2409..2489, 2410..2493, 2577..2639, 2583..2639, 2584..2640		

Seq. No.	52402	Seq. ID	OJ990416_08.0419.C21
Gene No.	110654	Strand	-
Start	1593	End	4027
Name	OJ990416_08.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	3489	End	4025
GI	none	Score	165
Exons	3489..3647, 3490..3636, 3495..3641, 3966..4025, 3972..4025		

Seq. No.	52403	Seq. ID	OJ990416_08.0419.C22
Gene No.	110655	Strand	+
Start	848	End	1442
Name	OJ990416_08.0419.C22.o1.gs	Method	GENSCAN
Start	848	End	1442
GI	none	Score	.87
Exons	848..876, 1414..1442		

Seq. No.	52404	Seq. ID	OJ990416_08.0419.C23
Gene No.	110656	Strand	+
Start	435	End	890
Name	OJ990416_08.0419.C23.o1.gs	Method	GENSCAN
Start	435	End	890
GI	none	Score	.59
Exons	435..890		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24

Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o1.gp	Method	AAT/GAP
Start	245	End	1789
GI	10719_1.R1084	Score	1099
Exons	245..606, 741..904, 1040..1173, 1768..1789		
GI Descrip.	'2832633/emb\|CAA16762.1\| 1.0e-104 (AL021711) putative protein [Arabidopsis thaliana]'		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24
Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	419	End	1191
GI	none	Score	84
Exons	419..445, 515..604, 516..605, 528..602, 544..633, 545..625, 744..905, 744..905, 745..906, 745..918, 1038..1175, 1039..1191, 1041..1172		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24
Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	535	End	1176
GI	none	Score	75
Exons	535..633, 539..607, 744..905, 745..906, 1035..1175, 1038..1172, 1039..1176, 1039..1176		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24
Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o1.np	Method	AAT/NAP
Start	538	End	1173
GI	7487137	Score	491
Exons	538..606, 741..904, 1040..1173		
GI Descrip.	hypothetical protein T18B16.20 - Arabidopsis thaliana gi\|2832633\|emb\|CAA16762.1\| (AL021711) putative protein [Arabidopsis thaliana] gi\|7268700\|emb\|CAB78907.1\| (AL161550) putative protein [Arabidopsis thaliana]		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24
Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	544	End	906
GI	none	Score	65
Exons	544..633, 545..607, 750..869, 751..870, 859..906, 867..905		

Seq. No.	52405	Seq. ID	OJ990416_08.0419.C24
Gene No.	110657	Strand	-
Start	245	End	1789
Name	OJ990416_08.0419.C24.o2.tc	Method	TBLASTX:Cress
Start	1038	End	1175
GI	none	Score	85
Exons	1038..1172, 1038..1175, 1039..1173		

Seq. No.	52406	Seq. ID	OJ990416_08.0419.C25

Gene No.	110658	Strand	+
Start	356	End	2482
Name	OJ990416_08.0419.C25.o1.gp	Method	AAT/GAP
Start	356	End	1790
GI	3766667	Score	663
Exons	356..447, 991..1098, 1377..1430, 1524..1638, 1747..1790		

Seq. No.	52406	Seq. ID	OJ990416_08.0419.C25
Gene No.	110658	Strand	+
Start	356	End	2482
Name	OJ990416_08.0419.C25.o1.gs	Method	GENSCAN
Start	358	End	2482
GI	none	Score	.88
Exons	358..447, 991..1098, 1377..1430, 1524..1638, 1747..1904, 2190..2285, 2375..2482		

Seq. No.	52406	Seq. ID	OJ990416_08.0419.C25
Gene No.	110659	Strand	-
Start	4141	End	4929
Name	OJ990416_08.0419.C25.o1.np	Method	AAT/NAP
Start	3986	End	4929
GI	6069646	Score	1007
Exons	3986..4929		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52406	Seq. ID	OJ990416_08.0419.C25
Gene No.	110659	Strand	-
Start	4141	End	4929
Name	OJ990416_08.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	4001	End	4557
GI	none	Score	182
Exons	4001..4204, 4226..4291, 4297..4557		

Seq. No.	52406	Seq. ID	OJ990416_08.0419.C25
Gene No.	110659	Strand	-
Start	4141	End	4929
Name	OJ990416_08.0419.C25.o2.gs	Method	GENSCAN
Start	4141	End	4832
GI	none	Score	.87
Exons	4141..4368, 4428..4589, 4698..4832		

Seq. No.	52407	Seq. ID	OJ990416_08.0419.C26
Gene No.	110660	Strand	-
Start	113	End	174
Name	OJ990416_08.0419.C26.o1.gp	Method	AAT/GAP
Start	113	End	174
GI	77434_1.R1084	Score	86
Exons	113..174		
GI Descrip.	'2827528/emb\|CAA16536.1\| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	52407	Seq. ID	OJ990416_08.0419.C26
Gene No.	110661	Strand	-

Start	1055	End	1252
Name	OJ990416_08.0419.C26.o1.gs	Method	GENSCAN
Start	1055	End	1252
GI	none	Score	.52
Exons	1055..1252		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	843
GI	7228457	Score	1259
Exons	1..369, 433..843		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o2.tw	Method	TBLASTX:Wheat
Start	9	End	276
GI	none	Score	268
Exons	9..245, 10..276		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o1.gs	Method	GENSCAN
Start	70	End	806
GI	none	Score	.6
Exons	70..369, 433..806		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	440	End	843
GI	none	Score	102
Exons	440..628, 441..842, 442..843		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	481	End	843
GI	none	Score	109
Exons	481..705, 712..843		

Seq. No.	52408	Seq. ID	OJ990416_08.0419.C27
Gene No.	110662	Strand	+
Start	1	End	843
Name	OJ990416_08.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	571	End	840
GI	none	Score	277
Exons	571..840, 606..830		

Seq. No.	52409	Seq. ID	OJ990416_08.0419.C30
Gene No.	110663	Strand	+
Start	224	End	367
Name	OJ990416_08.0419.C30.o1.gs	Method	GENSCAN
Start	224	End	367
GI	none	Score	.88
Exons	224..367		

Seq. No.	52409	Seq. ID	OJ990416_08.0419.C30
Gene No.	110664	Strand	-
Start	1	End	138
Name	OJ990416_08.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	138
GI	LIB3432-011-P1-K1-A7	Score	227
Exons	1..138		
GI Descrip.	'131332/sp\|P09449\|PSBH_ORYSA 5.0e-25 PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72716_pir__F2RZ0P photosystem II phosphoprotein psbH - rice chloroplast >gi_11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII 10kDa phosphoprotein [Oryza sativa] >gi_226635_prf__1603356BJ photosystem II 10kD phosphoprotein [Oryza sativa]'		

Seq. No.	52409	Seq. ID	OJ990416_08.0419.C30
Gene No.	110665	Strand	-
Start	994	End	1647
Name	OJ990416_08.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2	End	137
GI	none	Score	210
Exons	2..133, 2..136, 3..137		

Seq. No.	52409	Seq. ID	OJ990416_08.0419.C30
Gene No.	110665	Strand	-
Start	994	End	1647
Name	OJ990416_08.0419.C30.o2.gs	Method	GENSCAN
Start	994	End	1647
GI	none	Score	.8
Exons	994..1169, 1563..1647		

Seq. No.	52410	Seq. ID	OJ990416_08.0419.C31
Gene No.	110666	Strand	+
Start	724	End	4123
Name	OJ990416_08.0419.C31.o1.gs	Method	GENSCAN
Start	724	End	4123
GI	none	Score	.59
Exons	724..966, 1327..1633, 1777..1836, 3532..3800, 3992..4123		

Seq. No.	52410	Seq. ID	OJ990416_08.0419.C31
Gene No.	110667	Strand	-
Start	4364	End	5792
Name	OJ990416_08.0419.C31.o2.gs	Method	GENSCAN
Start	4364	End	5792
GI	none	Score	.48
Exons	4364..4476, 4552..4600, 4908..5140, 5749..5792		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110668	Strand	+

Start	409	End	926
Name	OJ990416_08.0419.C35.o1.gp	Method	AAT/GAP
Start	409	End	926
GI	19007_1.R1084	Score	748
Exons	409..471, 584..926		
GI Descrip.	'3334112/sp\|O04066\|ACBP_RICCO 3.0e-35 ACYL-COA-BINDING PROTEIN (ACBP) >gi_1938236_emb_CAA70200_ (Y08996) acyl-CoA-binding protein [Ricinus communis]'		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110668	Strand	+
Start	409	End	926
Name	OJ990416_08.0419.C35.o1.np	Method	AAT/NAP
Start	409	End	666
GI	6002102	Score	158
Exons	409..471, 584..666		
GI Descrip.	(AJ249833) Acyl-CoA binding protein (ACBP) [Digitalis lanata]		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110668	Strand	+
Start	409	End	926
Name	OJ990416_08.0419.C35.o1.gs	Method	GENSCAN
Start	584	End	666
GI	none	Score	.67
Exons	584..666		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110669	Strand	-
Start	1206	End	1950
Name	OJ990416_08.0419.C35.o2.gs	Method	GENSCAN
Start	1206	End	1796
GI	none	Score	.96
Exons	1206..1796		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110669	Strand	-
Start	1206	End	1950
Name	OJ990416_08.0419.C35.o2.gp	Method	AAT/GAP
Start	1492	End	1950
GI	none	Score	837
Exons	1492..1950		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o3.gp	Method	AAT/GAP
Start	2646	End	4954
GI	3377_1.R1084	Score	1688
Exons	2646..2974, 3081..3149, 3256..3337, 3528..3694, 4393..4587, 4817..4954		
GI Descrip.	'2264310/dbj\|AB005238.1\|AB005238 1.0e-15 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MKP11, complete sequence'		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o1.tm	Method	TBLASTX:Maize

Start	2737	End	3328
GI	none	Score	41
Exons	2737..2769, 2738..2782, 2784..2960, 2798..2977, 2799..2975, 2804..2977, 3081..3146, 3082..3150, 3083..3151, 3083..3151, 3232..3327, 3251..3328		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	2804	End	4486
GI	none	Score	174
Exons	2804..2977, 2805..2975, 3081..3161, 3082..3150, 3232..3339, 3251..3340, 3251..3340, 3527..3691, 3528..3692, 3528..3692, 3529..3693, 3530..3724, 4394..4486		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o3.gs	Method	GENSCAN
Start	2804	End	4633
GI	none	Score	.72
Exons	2804..2974, 3081..3149, 3256..3337, 3528..3694, 4393..4497, 4550..4633		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	2855	End	4503
GI	none	Score	119
Exons	2855..2977, 2865..2975, 3081..3161, 3082..3150, 3232..3339, 3251..3340, 3498..3695, 3527..3694, 4393..4503, 4394..4492		

Seq. No.	52411	Seq. ID	OJ990416_08.0419.C35
Gene No.	110670	Strand	-
Start	2804	End	4954
Name	OJ990416_08.0419.C35.o2.tm	Method	TBLASTX:Maize
Start	3527	End	4925
GI	none	Score	151
Exons	3527..3691, 3527..3694, 3528..3692, 3529..3693, 4393..4476, 4394..4477, 4453..4503, 4480..4503, 4556..4585, 4557..4586, 4558..4587, 4802..4879, 4818..4925, 4884..4916		

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110671	Strand	+
Start	1	End	341
Name	OJ990416_08.0419.C36.o1.gp	Method	AAT/GAP
Start	1	End	341
GI	none	Score	674
Exons	1..341		

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110672	Strand	-
Start	1	End	1053
Name	OJ990416_08.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1053

GI	6729546	Score	233
Exons	1..19, 371..812, 1003..1053		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110672	Strand	-
Start	1	End	1053
Name	OJ990416_08.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	300	End	857
GI	none	Score	45
Exons	300..344, 306..362, 365..415, 455..745, 487..729, 500..730,	365..412, 403..441, 413..523, 534..746, 752..856, 753..857	

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110672	Strand	-
Start	1	End	1053
Name	OJ990416_08.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	449	End	703
GI	none	Score	95
Exons	449..490, 503..703, 521..703		

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110672	Strand	-
Start	1	End	1053
Name	OJ990416_08.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	516	End	701
GI	none	Score	165
Exons	516..665, 521..700, 534..701		

Seq. No.	52412	Seq. ID	OJ990416_08.0419.C36
Gene No.	110672	Strand	-
Start	1	End	1053
Name	OJ990416_08.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	521	End	704
GI	none	Score	146
Exons	521..703, 537..704		

Seq. No.	52413	Seq. ID	OJ990416_08.0419.C37
Gene No.	110673	Strand	-
Start	995	End	1771
Name	OJ990416_08.0419.C37.o1.gs	Method	GENSCAN
Start	995	End	1771
GI	none	Score	.81
Exons	995..1280, 1454..1771		

Seq. No.	52414	Seq. ID	OJ990416_08.0419.C39
Gene No.	110674	Strand	-
Start	589	End	1011
Name	OJ990416_08.0419.C39.o1.gp	Method	AAT/GAP
Start	260	End	340
GI	38012_1.R1084	Score	108
Exons	260..340		
GI Descrip.	'4097947/gb\|U72255\|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	52414	Seq. ID	OJ990416_08.0419.C39
Gene No.	110674	Strand	-

Start	589	End	1011
Name	OJ990416_08.0419.C39.o2.gp	Method	AAT/GAP
Start	304	End	573
GI	LIB3434-035-P1-K1-A7	Score	452
Exons	304..573		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52414	Seq. ID	OJ990416_08.0419.C39
Gene No.	110674	Strand	-
Start	589	End	1011
Name	OJ990416_08.0419.C39.o1.gs	Method	GENSCAN
Start	589	End	1011
GI	none	Score	.57
Exons	589..1011		

Seq. No.	52415	Seq. ID	OJ990416_08.0419.C40
Gene No.	110675	Strand	+
Start	1	End	501
Name	OJ990416_08.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	501
GI	5295948	Score	119
Exons	1..29, 234..501		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	52415	Seq. ID	OJ990416_08.0419.C40
Gene No.	110675	Strand	+
Start	1	End	501
Name	OJ990416_08.0419.C40.o1.gs	Method	GENSCAN
Start	196	End	490
GI	none	Score	.73
Exons	196..490		

Seq. No.	52416	Seq. ID	OJ990416_08.0419.C43
Gene No.	110676	Strand	+
Start	66	End	195
Name	OJ990416_08.0419.C43.o1.gs	Method	GENSCAN
Start	66	End	195
GI	none	Score	.97
Exons	66..195		

Seq. No.	52416	Seq. ID	OJ990416_08.0419.C43
Gene No.	110677	Strand	-
Start	856	End	1382
Name	OJ990416_08.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	856	End	999
GI	none	Score	126
Exons	856..999, 860..994		

Seq. No.	52416	Seq. ID	OJ990416_08.0419.C43
Gene No.	110677	Strand	-
Start	856	End	1382
Name	OJ990416_08.0419.C43.o2.gs	Method	GENSCAN
Start	856	End	1191
GI	none	Score	.9
Exons	856..1191		

Seq. No.	52416	Seq. ID	OJ990416_08.0419.C43
Gene No.	110677	Strand	-
Start	856	End	1382
Name	OJ990416_08.0419.C43.o1.np	Method	AAT/NAP
Start	859	End	1382
GI	7228457	Score	857
Exons	859..1382		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52416	Seq. ID	OJ990416_08.0419.C43
Gene No.	110677	Strand	-
Start	856	End	1382
Name	OJ990416_08.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	868	End	1377
GI	none	Score	77
Exons	868..993, 872..994, 1024..1098, 1168..1377, 1187..1330		

Seq. No.	52417	Seq. ID	OJ990416_08.0419.C46
Gene No.	110678	Strand	-
Start	1079	End	1258
Name	OJ990416_08.0419.C46.o1.np	Method	AAT/NAP
Start	1079	End	1258
GI	7340924	Score	86
Exons	1079..1258		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52418	Seq. ID	OJ990226_08.0420.C1
Gene No.	110679	Strand	+
Start	648	End	881
Name	OJ990226_08.0420.C1.o1.gs	Method	GENSCAN
Start	648	End	881
GI	none	Score	.94
Exons	648..881		

Seq. No.	52419	Seq. ID	OJ990226_08.0420.C3
Gene No.	110680	Strand	+
Start	657	End	849
Name	OJ990226_08.0420.C3.o1.gs	Method	GENSCAN
Start	657	End	849
GI	none	Score	.95
Exons	657..849		

Seq. No.	52420	Seq. ID	OJ990226_08.0420.C4
Gene No.	110681	Strand	-
Start	51	End	4458
Name	OJ990226_08.0420.C4.o1.gs	Method	GENSCAN
Start	51	End	4458
GI	none	Score	.83
Exons	51..781, 955..1030, 1147..2239, 2295..2860, 3249..3328, 3480..3540, 4107..4183, 4385..4458		

Seq. No.	52420	Seq. ID	OJ990226_08.0420.C4
Gene No.	110681	Strand	-
Start	51	End	4458
Name	OJ990226_08.0420.C4.o1.gp	Method	AAT/GAP

Start	1863	End	2313
GI	none	Score	832
Exons	1863..2313		

Seq. No.	52420	Seq. ID	OJ990226_08.0420.C4
Gene No.	110681	Strand	-
Start	51	End	4458
Name	OJ990226_08.0420.C4.o2.gp	Method	AAT/GAP
Start	3783	End	4220
GI	2427623	Score	815
Exons	3783..4220		

Seq. No.	52421	Seq. ID	OJ990226_08.0420.C7
Gene No.	110682	Strand	-
Start	1371	End	1568
Name	OJ990226_08.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	1215	End	1568
GI	none	Score	42
Exons	1215..1262, 1217..1261, 1373..1528, 1376..1561, 1422..1568		

Seq. No.	52421	Seq. ID	OJ990226_08.0420.C7
Gene No.	110682	Strand	-
Start	1371	End	1568
Name	OJ990226_08.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	1293	End	1567
GI	none	Score	81
Exons	1293..1565, 1295..1567		

Seq. No.	52421	Seq. ID	OJ990226_08.0420.C7
Gene No.	110682	Strand	-
Start	1371	End	1568
Name	OJ990226_08.0420.C7.o1.gs	Method	GENSCAN
Start	1371	End	1544
GI	none	Score	.43
Exons	1371..1544		

Seq. No.	52422	Seq. ID	OJ990226_08.0420.C9
Gene No.	110683	Strand	-
Start	1852	End	2031
Name	OJ990226_08.0420.C9.o1.gp	Method	AAT/GAP
Start	1673	End	2031
GI	2799559	Score	553
Exons	1673..2031		

Seq. No.	52422	Seq. ID	OJ990226_08.0420.C9
Gene No.	110683	Strand	-
Start	1852	End	2031
Name	OJ990226_08.0420.C9.o2.gs	Method	GENSCAN
Start	1852	End	1917
GI	none	Score	.83
Exons	1852..1917		

Seq. No.	52423	Seq. ID	OJ990226_08.0420.C11
Gene No.	110684	Strand	+
Start	392	End	1638
Name	OJ990226_08.0420.C11.o1.np	Method	AAT/NAP
Start	392	End	1638

GI	4680186	Score	166
Exons	392..623, 1453..1638		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52423	Seq. ID	OJ990226_08.0420.C11
Gene No.	110684	Strand	+
Start	392	End	1638
Name	OJ990226_08.0420.C11.o2.np	Method	AAT/NAP
Start	812	End	1579
GI	4680183	Score	181
Exons	812..882, 1490..1579		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.np	Method	AAT/NAP
Start	657	End	1515
GI	1346109	Score	1092
Exons	657..1515		
GI Descrip.	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) gi\|540535\|dbj\|BAA07404\| (D38231) RWD [Oryza sativa]		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	765	End	1499
GI	none	Score	227
Exons	765..1499, 768..992, 769..1161, 1065..1139, 1158..1256, 1198..1323, 1378..1467		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.gp	Method	AAT/GAP
Start	768	End	1104
GI	38014_1.R1084	Score	630
Exons	768..1104		
GI Descrip.	'1346109/sp\|P49027\|GBLP_ORYSA 3.0e-54 GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) >gi_540535_dbj_BAA07404_ (D38231) RWD [Oryza sativa]'		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.gs	Method	GENSCAN
Start	768	End	1421
GI	none	Score	.45
Exons	768..1421		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	780	End	1469

GI	none	Score	145
Exons	780..1160, 783..1106, 936..1049, 948..1112, 985..1158, 1026..1115, 1068..1139, 1197..1253, 1197..1469, 1198..1320, 1224..1388, 1224..1352, 1227..1265, 1251..1313, 1335..1448, 1381..1467		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	783	End	1469
GI	none	Score	154
Exons	783..992, 783..1160, 936..1055, 948..1112, 985..1158, 1074..1115, 1197..1469, 1198..1467, 1224..1388, 1224..1352, 1335..1448, 1374..1469		

Seq. No.	52424	Seq. ID	OJ990226_08.0420.C13
Gene No.	110685	Strand	-
Start	657	End	1515
Name	OJ990226_08.0420.C13.o2.gp	Method	AAT/GAP
Start	1328	End	1515
GI	uC-osf1cyp172d01b1	Score	376
Exons	1328..1515		
GI Descrip.	'1346109/sp\|P49027\|GBLP_ORYSA 1.0e-43 GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) >gi_540535_dbj_BAA07404_ (D38231) RWD [Oryza sativa]'		

Seq. No.	52425	Seq. ID	OJ990226_08.0420.C14
Gene No.	110686	Strand	+
Start	1169	End	2670
Name	OJ990226_08.0420.C14.o1.gs	Method	GENSCAN
Start	1169	End	2643
GI	none	Score	.4
Exons	1169..1402, 1639..1710, 1879..2055, 2346..2438, 2488..2643		

Seq. No.	52425	Seq. ID	OJ990226_08.0420.C14
Gene No.	110686	Strand	+
Start	1169	End	2670
Name	OJ990226_08.0420.C14.o1.np	Method	AAT/NAP
Start	1169	End	2670
GI	6522538	Score	167
Exons	1169..1402, 1639..1710, 2644..2670		
GI Descrip.	(AL132955) putative protein [Arabidopsis thaliana]		

Seq. No.	52426	Seq. ID	OJ990226_08.0420.C20
Gene No.	110687	Strand	+
Start	1	End	187
Name	OJ990226_08.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	187
GI	1346109	Score	124
Exons	1..187		
GI Descrip.	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) gi\|540535\|dbj\|BAA07404\| (D38231) RWD [Oryza sativa]		

Seq. No.	52426	Seq. ID	OJ990226_08.0420.C20
Gene No.	110688	Strand	+

Start	1142	End	1683
Name	OJ990226_08.0420.C20.o2.gp	Method	AAT/GAP
Start	1142	End	1492
GI	none	Score	671
Exons	1142..1492		

Seq. No.	52426	Seq. ID	OJ990226_08.0420.C20
Gene No.	110688	Strand	+
Start	1142	End	1683
Name	OJ990226_08.0420.C20.o1.gs	Method	GENSCAN
Start	1157	End	1683
GI	none	Score	.86
Exons	1157..1683		

Seq. No.	52426	Seq. ID	OJ990226_08.0420.C20
Gene No.	110689	Strand	-
Start	75	End	492
Name	OJ990226_08.0420.C20.o1.gp	Method	AAT/GAP
Start	75	End	492
GI	38014_1.R1084	Score	811
Exons	75..492		
GI Descrip.	'1346109/sp\|P49027\|GBLP_ORYSA 3.0e-54 GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) >gi_540535_dbj_BAA07404_ (D38231) RWD [Oryza sativa]'		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110690	Strand	+
Start	13	End	4807
Name	OJ990226_08.0420.C21.o1.gs	Method	GENSCAN
Start	13	End	4807
GI	none	Score	.62
Exons	13..405, 1332..1617, 2044..2247, 2288..2430, 2894..3190, 3283..3386, 3507..3611, 4594..4807		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110691	Strand	+
Start	5689	End	17993
Name	OJ990226_08.0420.C21.o2.gs	Method	GENSCAN
Start	5689	End	16312
GI	none	Score	.66
Exons	5689..7114, 7320..7345, 7613..8284, 10141..10263, 10510..10986, 12291..12833, 13054..13531, 13630..13760, 14389..14733, 14893..15049, 15127..15419, 15535..15594, 16051..16140, 16217..16312		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110691	Strand	+
Start	5689	End	17993
Name	OJ990226_08.0420.C21.o1.np	Method	AAT/NAP
Start	10859	End	17993
GI	6692258	Score	931
Exons	10859..10916, 12371..12833, 13054..13531, 13630..13762, 14364..14530, 14576..14733, 14893..15049, 15127..15419, 15535..15621, 17961..17993		
GI Descrip.	(AC010870) unknown protein [Arabidopsis thaliana]		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21

Gene No.	110692	Strand	+
Start	18231	End	18425
Name	OJ990226_08.0420.C21.o4.gs	Method	GENSCAN
Start	18231	End	18425
GI	none	Score	.81
Exons	18231..18425		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o3.tm	Method	TBLASTX:Maize
Start	6592	End	7122
GI	none	Score	54
Exons	6592..6738, 6748..6816, 6748..6816, 6820..6846, 6846..7118, 6850..7116, 6916..7122		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o2.tm	Method	TBLASTX:Maize
Start	11936	End	13533
GI	none	Score	62
Exons	11936..12082, 13057..13128, 13309..13533, 13341..13532		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o1.tc	Method	TBLASTX:Cress
Start	14400	End	15594
GI	none	Score	182
Exons	14400..14684, 14401..14538, 14584..14733, 14893..15051, 14910..14948, 14935..15039, 15123..15419, 15125..15421, 15125..15325, 15365..15433, 15532..15594, 15534..15581		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o1.ts	Method	TBLASTX:Soybean
Start	14584	End	15419
GI	none	Score	79
Exons	14584..14730, 14893..15051, 15104..15325, 15120..15419, 15126..15344		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o1.tm	Method	TBLASTX:Maize
Start	14882	End	15358
GI	none	Score	170
Exons	14882..15049, 14902..15051, 14902..15042, 15123..15335, 15125..15325, 15128..15358		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o1.tw	Method	TBLASTX:Wheat
Start	14884	End	15298

GI	none	Score	122
Exons	14884..15051, 15104..15298, 15120..15296		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o3.gs	Method	GENSCAN
Start	16805	End	17231
GI	none	Score	.46
Exons	16805..16912, 17106..17231		

Seq. No.	52427	Seq. ID	OJ990226_08.0420.C21
Gene No.	110693	Strand	-
Start	16805	End	17231
Name	OJ990226_08.0420.C21.o1.gp	Method	AAT/GAP
Start	16883	End	17212
GI	LIB3431-002-P1-N1-A10	Score	653
Exons	16883..17212		
GI Descrip.	'4521193/dbj\|AB013450.1\|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	52428	Seq. ID	OJ990226_08.0420.C22
Gene No.	110694	Strand	+
Start	988	End	1158
Name	OJ990226_08.0420.C22.o1.gs	Method	GENSCAN
Start	988	End	1158
GI	none	Score	.56
Exons	988..1158		

Seq. No.	52428	Seq. ID	OJ990226_08.0420.C22
Gene No.	110695	Strand	-
Start	203	End	696
Name	OJ990226_08.0420.C22.o1.gp	Method	AAT/GAP
Start	203	End	696
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	203..228, 620..696		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52428	Seq. ID	OJ990226_08.0420.C22
Gene No.	110696	Strand	-
Start	1839	End	2248
Name	OJ990226_08.0420.C22.o2.gs	Method	GENSCAN
Start	1839	End	2248
GI	none	Score	.79
Exons	1839..1982, 2036..2074, 2234..2248		

Seq. No.	52429	Seq. ID	OJ990226_08.0420.C24
Gene No.	110697	Strand	-
Start	57	End	3461
Name	OJ990226_08.0420.C24.o1.gs	Method	GENSCAN
Start	57	End	3461
GI	none	Score	.53
Exons	57..167, 1611..1706, 1796..1921, 2802..2970, 3056..3181, 3370..3461		

Seq. No.	52430	Seq. ID	OJ990226_08.0420.C25
Gene No.	110698	Strand	+
Start	1427	End	2060
Name	OJ990226_08.0420.C25.o1.np	Method	AAT/NAP
Start	1427	End	2060
GI	6553935	Score	187
Exons	1427..1617, 1876..2060		
GI Descrip.	(AC011915) putative tRNA isopentenyl transferase [Arabidopsis thaliana]		

Seq. No.	52431	Seq. ID	OJ990226_08.0420.C26
Gene No.	110699	Strand	-
Start	7	End	975
Name	OJ990226_08.0420.C26.o1.gs	Method	GENSCAN
Start	7	End	975
GI	none	Score	.87
Exons	7..138, 879..975		

Seq. No.	52432	Seq. ID	OJ990226_08.0420.C27
Gene No.	110700	Strand	+
Start	445	End	3239
Name	OJ990226_08.0420.C27.o1.gs	Method	GENSCAN
Start	445	End	3239
GI	none	Score	.56
Exons	445..533, 1996..2112, 2951..3239		

Seq. No.	52432	Seq. ID	OJ990226_08.0420.C27
Gene No.	110701	Strand	-
Start	2529	End	2968
Name	OJ990226_08.0420.C27.o1.gp	Method	AAT/GAP
Start	2529	End	2968
GI	4715238	Score	659
Exons	2529..2840, 2924..2968		

Seq. No.	52433	Seq. ID	OJ990226_08.0420.C28
Gene No.	110702	Strand	+
Start	312	End	2221
Name	OJ990226_08.0420.C28.o1.gs	Method	GENSCAN
Start	312	End	2221
GI	none	Score	.5
Exons	312..452, 2138..2221		

Seq. No.	52433	Seq. ID	OJ990226_08.0420.C28
Gene No.	110703	Strand	-
Start	3094	End	3564
Name	OJ990226_08.0420.C28.o2.gs	Method	GENSCAN
Start	3094	End	3564
GI	none	Score	.67
Exons	3094..3207, 3248..3315, 3360..3564		

Seq. No.	52434	Seq. ID	OJ990226_08.0420.C29
Gene No.	110704	Strand	+
Start	1	End	2148
Name	OJ990226_08.0420.C29.o1.np	Method	AAT/NAP
Start	1	End	2148
GI	5777623	Score	188
Exons	1..51, 1682..1841, 2118..2148		

GI Descrip. (AJ245900) CAA303711.1 protein [Oryza sativa]

Seq. No.	52434	Seq. ID	OJ990226_08.0420.C29
Gene No.	110705	Strand	-
Start	870	End	1894
Name	OJ990226_08.0420.C29.o1.gs	Method	GENSCAN
Start	870	End	1894
GI	none	Score	.56
Exons	870..994, 1759..1894		

Seq. No.	52435	Seq. ID	OJ990426_02.0419.C3
Gene No.	110706	Strand	+
Start	1	End	484
Name	OJ990426_02.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	481
GI	7228457	Score	787
Exons	1..481		

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	52435	Seq. ID	OJ990426_02.0419.C3
Gene No.	110706	Strand	+
Start	1	End	484
Name	OJ990426_02.0419.C3.o1.gs	Method	GENSCAN
Start	74	End	484
GI	none	Score	.99
Exons	74..484		

Seq. No.	52436	Seq. ID	OJ990426_02.0419.C10
Gene No.	110707	Strand	-
Start	583	End	798
Name	OJ990426_02.0419.C10.o1.gs	Method	GENSCAN
Start	583	End	798
GI	none	Score	.41
Exons	583..798		

Seq. No.	52437	Seq. ID	OJ990426_02.0419.C11
Gene No.	110708	Strand	+
Start	35	End	761
Name	OJ990426_02.0419.C11.o1.np	Method	AAT/NAP
Start	35	End	761
GI	7523490	Score	118
Exons	35..219, 339..576, 741..761		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	52437	Seq. ID	OJ990426_02.0419.C11
Gene No.	110708	Strand	+
Start	35	End	761
Name	OJ990426_02.0419.C11.o1.gs	Method	GENSCAN
Start	142	End	744
GI	none	Score	.99
Exons	142..744		

Seq. No.	52438	Seq. ID	OJ990426_02.0419.C12
Gene No.	110709	Strand	-
Start	1	End	947

Name	OJ990426_02.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	941
GI	7510201	Score	184
Exons	1..208, 814..941		
GI Descrip.	hypothetical protein Y54G11A.2 - Caenorhabditis elegans gi\|4008441\|emb\|CAA22448.1\| (AL034488) predicted using Genefinder; cDNA EST yk433c6.3 comes from this gene; cDNA EST EMBL:D72601 comes from this gene; cDNA EST EMBL:D75524 comes from this gene; cDNA EST yk433c6.5 comes from this gene [Caenorhabditis elegans]		

Seq. No.	52438	Seq. ID	OJ990426_02.0419.C12
Gene No.	110709	Strand	-
Start	1	End	947
Name	OJ990426_02.0419.C12.o1.gs	Method	GENSCAN
Start	105	End	941
GI	none	Score	.99
Exons	105..208, 814..941		

Seq. No.	52438	Seq. ID	OJ990426_02.0419.C12
Gene No.	110709	Strand	-
Start	1	End	947
Name	OJ990426_02.0419.C12.o1.gp	Method	AAT/GAP
Start	824	End	947
GI	uC-osroM202004g12b1	Score	217
Exons	824..947		
GI Descrip.	'4008441/emb\|CAA22448.1\| 5.0e-20 (AL034488) predicted using Genefinder; cDNA EST yk433c6.3 comes from this gene; cDNA EST EMBL:D72601 comes from this gene; cDNA EST EMBL:D75524 comes from this gene; cDNA EST yk433c6.5 comes from this gene [Caenorhabditis ele'		

Seq. No.	52439	Seq. ID	OJ990426_02.0419.C13
Gene No.	110710	Strand	+
Start	277	End	831
Name	OJ990426_02.0419.C13.o1.gs	Method	GENSCAN
Start	277	End	831
GI	none	Score	.9
Exons	277..461, 744..831		

Seq. No.	52440	Seq. ID	OJ990426_02.0419.C18
Gene No.	110711	Strand	+
Start	325	End	914
Name	OJ990426_02.0419.C18.o1.gs	Method	GENSCAN
Start	325	End	914
GI	none	Score	1
Exons	325..483, 591..914		

Seq. No.	52440	Seq. ID	OJ990426_02.0419.C18
Gene No.	110712	Strand	-
Start	1350	End	1703
Name	OJ990426_02.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1190	End	1588
GI	none	Score	55
Exons	1190..1252, 1202..1252, 1213..1317, 1348..1461, 1352..1462, 1353..1469, 1539..1583, 1539..1586, 1541..1588		

Seq. No.	52440	Seq. ID	OJ990426_02.0419.C18
Gene No.	110712	Strand	-
Start	1350	End	1703
Name	OJ990426_02.0419.C18.o1.np	Method	AAT/NAP
Start	1202	End	1703
GI	6692680	Score	89
Exons	1202..1247, 1354..1460, 1539..1703		
GI Descrip.	(AC007592) F12K11.12 [Arabidopsis thaliana]		

Seq. No.	52440	Seq. ID	OJ990426_02.0419.C18
Gene No.	110712	Strand	-
Start	1350	End	1703
Name	OJ990426_02.0419.C18.o2.gs	Method	GENSCAN
Start	1350	End	1460
GI	none	Score	.98
Exons	1350..1460		

Seq. No.	52441	Seq. ID	OJ990426_02.0419.C21
Gene No.	110713	Strand	-
Start	169	End	1828
Name	OJ990426_02.0419.C21.o1.gs	Method	GENSCAN
Start	169	End	1828
GI	none	Score	.55
Exons	169..346, 391..499, 505..568, 726..936, 1136..1179, 1615..1828		

Seq. No.	52442	Seq. ID	OJ990426_02.0419.C24
Gene No.	110714	Strand	+
Start	150	End	756
Name	OJ990426_02.0419.C24.o1.gs	Method	GENSCAN
Start	150	End	756
GI	none	Score	.78
Exons	150..756		

Seq. No.	52443	Seq. ID	OJ990426_02.0419.C25
Gene No.	110715	Strand	+
Start	120	End	1339
Name	OJ990426_02.0419.C25.o1.gs	Method	GENSCAN
Start	120	End	1339
GI	none	Score	.49
Exons	120..365, 758..1339		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o1.gs	Method	GENSCAN
Start	25	End	1227
GI	none	Score	.94
Exons	25..755, 885..1227		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o2.ts	Method	TBLASTX:Soybean
Start	35	End	285
GI	none	Score	46
Exons	35..73, 40..285, 146..283		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o1.np	Method	AAT/NAP
Start	46	End	1276
GI	4544372	Score	584
Exons	46..1276		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	61	End	468
GI	none	Score	121
Exons	61..468, 116..460		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	628	End	1029
GI	none	Score	90
Exons	628..1029, 806..922		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o2.tw	Method	TBLASTX:Wheat
Start	670	End	1047
GI	none	Score	124
Exons	670..741, 754..846, 883..1047		

Seq. No.	52444	Seq. ID	OJ990426_02.0419.C26
Gene No.	110716	Strand	-
Start	25	End	1276
Name	OJ990426_02.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	883	End	1260
GI	none	Score	212
Exons	883..1260		

Seq. No.	52445	Seq. ID	OJ990426_02.0419.C28
Gene No.	110717	Strand	-
Start	1	End	2200
Name	OJ990426_02.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	2200
GI	7228457	Score	3252
Exons	1..648, 675..2200		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52445	Seq. ID	OJ990426_02.0419.C28
Gene No.	110717	Strand	-
Start	1	End	2200
Name	OJ990426_02.0419.C28.o3.tw	Method	TBLASTX:Wheat

Start	1	End	177
GI	none	Score	83
Exons	1..177, 2..169		

Seq. No.	52445	Seq. ID	OJ990426_02.0419.C28
Gene No.	110717	Strand	-
Start	1	End	2200
Name	OJ990426_02.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	154	End	510
GI	none	Score	116
Exons	154..459, 154..510, 164..475		

Seq. No.	52445	Seq. ID	OJ990426_02.0419.C28
Gene No.	110717	Strand	-
Start	1	End	2200
Name	OJ990426_02.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	178	End	641
GI	none	Score	218
Exons	178..639, 184..639, 185..640, 198..641		

Seq. No.	52445	Seq. ID	OJ990426_02.0419.C28
Gene No.	110717	Strand	-
Start	1	End	2200
Name	OJ990426_02.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	765	End	1254
GI	none	Score	159
Exons	765..1253, 766..1059, 1081..1254		

Seq. No.	52446	Seq. ID	OJ990426_02.0419.C29
Gene No.	110718	Strand	+
Start	192	End	329
Name	OJ990426_02.0419.C29.o1.gs	Method	GENSCAN
Start	192	End	329
GI	none	Score	.58
Exons	192..329		

Seq. No.	52447	Seq. ID	OJ990426_02.0419.C30
Gene No.	110719	Strand	-
Start	202	End	1016
Name	OJ990426_02.0419.C30.o1.gs	Method	GENSCAN
Start	202	End	949
GI	none	Score	.83
Exons	202..426, 590..712, 802..949		

Seq. No.	52447	Seq. ID	OJ990426_02.0419.C30
Gene No.	110719	Strand	-
Start	202	End	1016
Name	OJ990426_02.0419.C30.o1.np	Method	AAT/NAP
Start	205	End	1016
GI	4218011	Score	299
Exons	205..426, 551..712, 802..1016		
GI Descrip.	(AC006135) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52447	Seq. ID	OJ990426_02.0419.C30
Gene No.	110719	Strand	-
Start	202	End	1016
Name	OJ990426_02.0419.C30.o1.tm	Method	TBLASTX:Maize

Start	358	End	964
GI	none	Score	70
Exons	358..429, 545..721, 549..611,	785..964, 790..948	

Seq. No.	52447	Seq. ID	OJ990426_02.0419.C30
Gene No.	110719	Strand	-
Start	202	End	1016
Name	OJ990426_02.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	545	End	958
GI	none	Score	107
Exons	545..721, 784..948, 836..958		

Seq. No.	52448	Seq. ID	OJ990426_02.0419.C32
Gene No.	110720	Strand	-
Start	89	End	1641
Name	OJ990426_02.0419.C32.o1.gp	Method	AAT/GAP
Start	89	End	1637
GI	17122_1.R1084	Score	1232
Exons	89..528, 623..786, 1575..1637		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 1.0e-17 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	52448	Seq. ID	OJ990426_02.0419.C32
Gene No.	110720	Strand	-
Start	89	End	1641
Name	OJ990426_02.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	625	End	1641
GI	none	Score	90
Exons	625..771, 626..793, 630..785,	1576..1641, 1582..1641	

Seq. No.	52449	Seq. ID	OJ990426_02.0419.C43
Gene No.	110721	Strand	+
Start	652	End	973
Name	OJ990426_02.0419.C43.o2.np	Method	AAT/NAP
Start	652	End	973
GI	5922623	Score	67
Exons	652..731, 950..973		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52449	Seq. ID	OJ990426_02.0419.C43
Gene No.	110722	Strand	-
Start	1	End	855
Name	OJ990426_02.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	574
GI	6721562	Score	886
Exons	1..574		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi\|6815087\|dbj\|BAA90373.1\| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	52449	Seq. ID	OJ990426_02.0419.C43
Gene No.	110722	Strand	-
Start	1	End	855

Name	OJ990426_02.0419.C43.o1.gs	Method	GENSCAN
Start	21	End	855
GI	none	Score	.76
Exons	21..199, 208..592, 649..855		

Seq. No.	52450	Seq. ID	OJ990426_02.0419.C44
Gene No.	110723	Strand	+
Start	543	End	614
Name	OJ990426_02.0419.C44.o1.gs	Method	GENSCAN
Start	543	End	614
GI	none	Score	.68
Exons	543..614		

Seq. No.	52450	Seq. ID	OJ990426_02.0419.C44
Gene No.	110724	Strand	-
Start	298	End	909
Name	OJ990426_02.0419.C44.o1.np	Method	AAT/NAP
Start	298	End	909
GI	4680186	Score	313
Exons	298..519, 859..909		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52451	Seq. ID	OJ990426_02.0419.C45
Gene No.	110725	Strand	+
Start	196	End	421
Name	OJ990426_02.0419.C45.o1.gs	Method	GENSCAN
Start	196	End	421
GI	none	Score	.46
Exons	196..421		

Seq. No.	52452	Seq. ID	OJ990426_02.0419.C66
Gene No.	110726	Strand	+
Start	212	End	779
Name	OJ990426_02.0419.C66.o1.np	Method	AAT/NAP
Start	212	End	779
GI	6006359	Score	74
Exons	212..309, 723..779		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	52452	Seq. ID	OJ990426_02.0419.C66
Gene No.	110726	Strand	+
Start	212	End	779
Name	OJ990426_02.0419.C66.o1.gs	Method	GENSCAN
Start	212	End	313
GI	none	Score	.93
Exons	212..313		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110727	Strand	+
Start	1	End	864
Name	OJ990426_02.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	510
GI	3355308	Score	250
Exons	1..510		
GI Descrip.	(AJ009695) wall-associated kinase 4 [Arabidopsis thaliana]		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67

Gene No.	110727	Strand	+
Start	1	End	864
Name	OJ990426_02.0419.C67.o2.np	Method	AAT/NAP
Start	1	End	864
GI	5852093	Score	94
Exons	1..73, 739..864		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110727	Strand	+
Start	1	End	864
Name	OJ990426_02.0419.C67.o1.gs	Method	GENSCAN
Start	2	End	538
GI	none	Score	.99
Exons	2..538		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110728	Strand	-
Start	1532	End	1654
Name	OJ990426_02.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	1	End	361
GI	none	Score	281
Exons	1..105, 2..361		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110728	Strand	-
Start	1532	End	1654
Name	OJ990426_02.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	1	End	346
GI	none	Score	290
Exons	1..123, 2..346, 277..327		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110728	Strand	-
Start	1532	End	1654
Name	OJ990426_02.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	4	End	322
GI	none	Score	61
Exons	4..90, 4..105, 5..322		

Seq. No.	52453	Seq. ID	OJ990426_02.0419.C67
Gene No.	110728	Strand	-
Start	1532	End	1654
Name	OJ990426_02.0419.C67.o2.gs	Method	GENSCAN
Start	1532	End	1654
GI	none	Score	.73
Exons	1532..1654		

Seq. No.	52454	Seq. ID	OJ990426_02.0419.C70
Gene No.	110729	Strand	+
Start	444	End	1782
Name	OJ990426_02.0419.C70.o1.gs	Method	GENSCAN
Start	444	End	1782
GI	none	Score	.84
Exons	444..908, 1744..1782		

Seq. No.	52454	Seq. ID	OJ990426_02.0419.C70

Gene No.	110729	Strand	+
Start	444	End	1782
Name	OJ990426_02.0419.C70.o1.tm	Method	TBLASTX:Maize
Start	762	End	1782
GI	none	Score	202
Exons	762..908, 766..915, 770..916, 774..917, 788..925, 1735..1782		

Seq. No.	52455	Seq. ID	OJ990426_02.0419.C73
Gene No.	110730	Strand	-
Start	275	End	869
Name	OJ990426_02.0419.C73.o1.gs	Method	GENSCAN
Start	275	End	869
GI	none	Score	.53
Exons	275..415, 734..869		

Seq. No.	52456	Seq. ID	OJ990426_02.0419.C74
Gene No.	110731	Strand	+
Start	1	End	66
Name	OJ990426_02.0419.C74.o1.gp	Method	AAT/GAP
Start	1	End	66
GI	3760640	Score	101
Exons	1..66		
GI Descrip.	4176420/dbj\|BAA37167\| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	52456	Seq. ID	OJ990426_02.0419.C74
Gene No.	110732	Strand	-
Start	1051	End	1891
Name	OJ990426_02.0419.C74.o1.gs	Method	GENSCAN
Start	1051	End	1891
GI	none	Score	.76
Exons	1051..1067, 1450..1681, 1739..1891		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110733	Strand	+
Start	4195	End	8374
Name	OJ990426_02.0419.C81.o3.gs	Method	GENSCAN
Start	4195	End	7321
GI	none	Score	.81
Exons	4195..5101, 5216..5731, 6075..7321		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110733	Strand	+
Start	4195	End	8374
Name	OJ990426_02.0419.C81.o1.np	Method	AAT/NAP
Start	5649	End	8374
GI	6665543	Score	904
Exons	5649..5731, 5855..5944, 6075..7130, 8347..8374		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110734	Strand	-
Start	347	End	477
Name	OJ990426_02.0419.C81.o1.gs	Method	GENSCAN
Start	347	End	477
GI	none	Score	.86
Exons	347..477		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110735	Strand	-
Start	1199	End	3082
Name	OJ990426_02.0419.C81.o2.gs	Method	GENSCAN
Start	1199	End	3082
GI	none	Score	.45
Exons	1199..1273, 1502..1828, 2645..2686, 3062..3082		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o3.tm	Method	TBLASTX:Maize
Start	4275	End	4454
GI	none	Score	99
Exons	4275..4451, 4276..4452, 4299..4454		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o1.tc	Method	TBLASTX:Cress
Start	4303	End	7138
GI	none	Score	101
Exons	4303..4401, 4582..4755, 5023..5097, 5242..5313, 5665..5727, 6203..6556, 6278..6523, 6358..6537, 6577..6882, 6578..7138, 6587..6895		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o2.tm	Method	TBLASTX:Maize
Start	4948	End	5745
GI	none	Score	51
Exons	4948..5001, 5038..5103, 5541..5735, 5542..5736, 5551..5745, 5553..5738		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o1.tm	Method	TBLASTX:Maize
Start	6152	End	7123
GI	none	Score	413
Exons	6152..6571, 6269..6547, 6352..6618, 6584..7123, 6601..6936, 6626..7114		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o1.ts	Method	TBLASTX:Soybean
Start	6155	End	6952
GI	none	Score	171
Exons	6155..6409, 6245..6412, 6407..6556, 6418..6552, 6581..6952, 6586..6903		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368

Name	OJ990426_02.0419.C81.o1.tw	Method	TBLASTX:Wheat
Start	6212	End	6637
GI	none	Score	410
Exons	6212..6556, 6252..6374, 6355..6537, 6578..6637		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o2.tw	Method	TBLASTX:Wheat
Start	6638	End	6906
GI	none	Score	133
Exons	6638..6766, 6767..6904, 6781..6906		

Seq. No.	52457	Seq. ID	OJ990426_02.0419.C81
Gene No.	110736	Strand	-
Start	8077	End	8368
Name	OJ990426_02.0419.C81.o4.gs	Method	GENSCAN
Start	8077	End	8368
GI	none	Score	.78
Exons	8077..8211, 8255..8368		

Seq. No.	52458	Seq. ID	OJ990426_02.0419.C82
Gene No.	110737	Strand	+
Start	24	End	363
Name	OJ990426_02.0419.C82.o1.gs	Method	GENSCAN
Start	24	End	363
GI	none	Score	.48
Exons	24..76, 156..363		

Seq. No.	52458	Seq. ID	OJ990426_02.0419.C82
Gene No.	110738	Strand	-
Start	460	End	611
Name	OJ990426_02.0419.C82.o2.gs	Method	GENSCAN
Start	460	End	611
GI	none	Score	.71
Exons	460..611		

Seq. No.	52458	Seq. ID	OJ990426_02.0419.C82
Gene No.	110739	Strand	-
Start	538	End	718
Name	OJ990426_02.0419.C82.o1.np	Method	AAT/NAP
Start	538	End	718
GI	6063554	Score	83
Exons	538..718		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52459	Seq. ID	OJ990426_02.0419.C95
Gene No.	110740	Strand	+
Start	191	End	328
Name	OJ990426_02.0419.C95.o1.gs	Method	GENSCAN
Start	191	End	328
GI	none	Score	.49
Exons	191..328		

Seq. No.	52460	Seq. ID	OJ990426_02.0419.C97

Gene No.	110741	Strand	+
Start	757	End	1122
Name	OJ990426_02.0419.C97.o1.gp	Method	AAT/GAP
Start	757	End	1122
GI	53131_1.R1084	Score	720
Exons	757..1122		
GI Descrip.	'1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	52460	Seq. ID	OJ990426_02.0419.C97
Gene No.	110742	Strand	-
Start	33	End	1121
Name	OJ990426_02.0419.C97.o1.gs	Method	GENSCAN
Start	33	End	1102
GI	none	Score	.5
Exons	33..120, 762..980, 1029..1102		

Seq. No.	52460	Seq. ID	OJ990426_02.0419.C97
Gene No.	110742	Strand	-
Start	33	End	1121
Name	OJ990426_02.0419.C97.o1.tm	Method	TBLASTX:Maize
Start	898	End	1121
GI	none	Score	122
Exons	898..972, 899..979, 900..980, 970..993, 972..1121, 972..1121		

Seq. No.	52461	Seq. ID	OJ990426_02.0419.C103
Gene No.	110743	Strand	-
Start	21	End	90
Name	OJ990426_02.0419.C103.o1.gs	Method	GENSCAN
Start	21	End	90
GI	none	Score	.93
Exons	21..90		

Seq. No.	52462	Seq. ID	OJ990426_02.0419.C105
Gene No.	110744	Strand	-
Start	1757	End	2850
Name	OJ990426_02.0419.C105.o1.gs	Method	GENSCAN
Start	1757	End	2850
GI	none	Score	.85
Exons	1757..1818, 2160..2350, 2786..2850		

Seq. No.	52462	Seq. ID	OJ990426_02.0419.C105
Gene No.	110744	Strand	-
Start	1757	End	2850
Name	OJ990426_02.0419.C105.o1.tm	Method	TBLASTX:Maize
Start	1961	End	2349
GI	none	Score	82
Exons	1961..2038, 1962..2024, 1962..2039, 1964..2038, 2019..2060, 2170..2259, 2173..2280, 2174..2269, 2263..2349, 2267..2305		

Seq. No.	52462	Seq. ID	OJ990426_02.0419.C105
Gene No.	110744	Strand	-
Start	1757	End	2850
Name	OJ990426_02.0419.C105.o1.ts	Method	TBLASTX:Soybean
Start	1961	End	2355
GI	none	Score	108
Exons	1961..2002, 2007..2060, 2173..2280, 2174..2269, 2263..2355		

Seq. No.	52462	Seq. ID	OJ990426_02.0419.C105
Gene No.	110744	Strand	-
Start	1757	End	2850
Name	OJ990426_02.0419.C105.o1.np	Method	AAT/NAP
Start	1962	End	2328
GI	6714453	Score	185
Exons	1962..2057, 2160..2328		
GI Descrip.	(AC011620) unknown protein [Arabidopsis thaliana]		

Seq. No.	52462	Seq. ID	OJ990426_02.0419.C105
Gene No.	110744	Strand	-
Start	1757	End	2850
Name	OJ990426_02.0419.C105.o1.tc	Method	TBLASTX:Cress
Start	1964	End	2310
GI	none	Score	59
Exons	1964..2059, 1968..2060, 2174..2269, 2174..2248, 2176..2310		

Seq. No.	52463	Seq. ID	OJ990426_02.0419.C108
Gene No.	110745	Strand	+
Start	560	End	1000
Name	OJ990426_02.0419.C108.o1.gp	Method	AAT/GAP
Start	560	End	939
GI	15594_1.R1084	Score	678
Exons	560..939		
GI Descrip.	'3402679 6.0e-09 (AC004697) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52463	Seq. ID	OJ990426_02.0419.C108
Gene No.	110745	Strand	+
Start	560	End	1000
Name	OJ990426_02.0419.C108.o1.gs	Method	GENSCAN
Start	734	End	1000
GI	none	Score	1
Exons	734..1000		

Seq. No.	52463	Seq. ID	OJ990426_02.0419.C108
Gene No.	110745	Strand	+
Start	560	End	1000
Name	OJ990426_02.0419.C108.o1.tm	Method	TBLASTX:Maize
Start	764	End	949
GI	none	Score	283
Exons	764..949, 772..948		

Seq. No.	52463	Seq. ID	OJ990426_02.0419.C108
Gene No.	110745	Strand	+
Start	560	End	1000
Name	OJ990426_02.0419.C108.o1.ts	Method	TBLASTX:Soybean
Start	791	End	940
GI	none	Score	220
Exons	791..940, 802..939		

Seq. No.	52463	Seq. ID	OJ990426_02.0419.C108
Gene No.	110745	Strand	+
Start	560	End	1000
Name	OJ990426_02.0419.C108.o1.tc	Method	TBLASTX:Cress
Start	800	End	951

GI	none	Score	216
Exons	800..949, 805..951		

Seq. No.	52464	Seq. ID	OJ990426_02.0419.C111
Gene No.	110746	Strand	+
Start	45	End	556
Name	OJ990426_02.0419.C111.o1.gp	Method	AAT/GAP
Start	45	End	522
GI	15594_1.R1084	Score	538
Exons	45..232, 414..522		
GI Descrip.	'3402679 6.0e-09 (AC004697) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52464	Seq. ID	OJ990426_02.0419.C111
Gene No.	110746	Strand	+
Start	45	End	556
Name	OJ990426_02.0419.C111.o1.tm	Method	TBLASTX:Maize
Start	45	End	533
GI	none	Score	258
Exons	45..230, 45..230, 46..231, 46..231, 388..489, 413..523, 413..520, 414..533		

Seq. No.	52464	Seq. ID	OJ990426_02.0419.C111
Gene No.	110746	Strand	+
Start	45	End	556
Name	OJ990426_02.0419.C111.o1.ts	Method	TBLASTX:Soybean
Start	45	End	526
GI	none	Score	276
Exons	45..230, 46..231, 64..237, 83..232, 391..489, 413..523, 413..526		

Seq. No.	52464	Seq. ID	OJ990426_02.0419.C111
Gene No.	110746	Strand	+
Start	45	End	556
Name	OJ990426_02.0419.C111.o1.gs	Method	GENSCAN
Start	46	End	556
GI	none	Score	.63
Exons	46..232, 414..556		

Seq. No.	52465	Seq. ID	OJ990426_02.0419.C113
Gene No.	110747	Strand	+
Start	488	End	961
Name	OJ990426_02.0419.C113.o1.gp	Method	AAT/GAP
Start	488	End	924
GI	none	Score	859
Exons	488..924		

Seq. No.	52465	Seq. ID	OJ990426_02.0419.C113
Gene No.	110747	Strand	+
Start	488	End	961
Name	OJ990426_02.0419.C113.o1.tm	Method	TBLASTX:Maize
Start	657	End	961
GI	none	Score	77
Exons	657..782, 663..782, 664..783, 780..959, 783..959, 785..961		

Seq. No.	52466	Seq. ID	OJ990426_02.0419.C117
Gene No.	110748	Strand	-
Start	1	End	726

Name	OJ990426_02.0419.C117.o1.np	Method	AAT/NAP
Start	1	End	726
GI	4587572	Score	576
Exons	1..726		
GI Descrip.	(AC006550) Similar to gb\|U70015 lysosomal trafficking regulator from Mus musculus and contains 2 PF\|00400 WD40, G-beta repeats. ESTs gb\|T43386 and gb\|AA395236 come from this gene. [Arabidopsis thaliana]		

Seq. No.	52467	Seq. ID	OJ990426_02.0419.C121
Gene No.	110749	Strand	-
Start	596	End	1406
Name	OJ990426_02.0419.C121.o1.gp	Method	AAT/GAP
Start	596	End	908
GI	3758959	Score	569
Exons	596..908		

Seq. No.	52467	Seq. ID	OJ990426_02.0419.C121
Gene No.	110749	Strand	-
Start	596	End	1406
Name	OJ990426_02.0419.C121.o1.tm	Method	TBLASTX:Maize
Start	720	End	1406
GI	none	Score	137
Exons	720..932, 749..934, 767..937, 1359..1406		

Seq. No.	52468	Seq. ID	OJ990426_02.0419.C122
Gene No.	110750	Strand	-
Start	379	End	3260
Name	OJ990426_02.0419.C122.o1.gs	Method	GENSCAN
Start	379	End	3260
GI	none	Score	.87
Exons	379..437, 541..1369, 2175..2519, 2594..3056, 3157..3260		

Seq. No.	52468	Seq. ID	OJ990426_02.0419.C122
Gene No.	110750	Strand	-
Start	379	End	3260
Name	OJ990426_02.0419.C122.o1.tm	Method	TBLASTX:Maize
Start	569	End	1371
GI	none	Score	178
Exons	569..730, 570..788, 571..789, 577..789, 786..992, 786..1070, 790..1254, 790..1248, 794..1255, 806..1255, 1238..1351, 1255..1350, 1263..1370, 1263..1370, 1264..1371		

Seq. No.	52468	Seq. ID	OJ990426_02.0419.C122
Gene No.	110750	Strand	-
Start	379	End	3260
Name	OJ990426_02.0419.C122.o2.tm	Method	TBLASTX:Maize
Start	2179	End	2572
GI	none	Score	196
Exons	2179..2424, 2181..2420, 2430..2492, 2431..2493, 2519..2572		

Seq. No.	52468	Seq. ID	OJ990426_02.0419.C122
Gene No.	110750	Strand	-
Start	379	End	3260
Name	OJ990426_02.0419.C122.o1.gp	Method	AAT/GAP
Start	2275	End	2822
GI	uC-osflcyp124f12b1	Score	904

Exons	2275..2519, 2594..2822		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 1.0e-17 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	52469	Seq. ID	OJ990426_02.0419.C123
Gene No.	110751	Strand	-
Start	863	End	1018
Name	OJ990426_02.0419.C123.o1.gs	Method	GENSCAN
Start	863	End	1018
GI	none	Score	.9
Exons	863..1018		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110752	Strand	+
Start	5486	End	6619
Name	OJ990426_02.0419.C124.o2.gs	Method	GENSCAN
Start	5486	End	6526
GI	none	Score	.82
Exons	5486..5595, 5725..6526		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110752	Strand	+
Start	5486	End	6619
Name	OJ990426_02.0419.C124.o1.np	Method	AAT/NAP
Start	5486	End	6619
GI	2464912	Score	596
Exons	5486..6619		
GI Descrip.	(Z99708) salt-inducible like protein [Arabidopsis thaliana]		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110753	Strand	-
Start	223	End	5121
Name	OJ990426_02.0419.C124.o1.tm	Method	TBLASTX:Maize
Start	217	End	853
GI	none	Score	735
Exons	217..852, 221..853, 224..853		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110753	Strand	-
Start	223	End	5121
Name	OJ990426_02.0419.C124.o1.gs	Method	GENSCAN
Start	223	End	5100
GI	none	Score	.92
Exons	223..972, 3182..3367, 3590..3652, 3750..3821, 3918..4326, 4727..5100		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110753	Strand	-
Start	223	End	5121
Name	OJ990426_02.0419.C124.o1.gp	Method	AAT/GAP
Start	2074	End	3250
GI	3758958	Score	662
Exons	2074..2347, 3182..3250		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110753	Strand	-
Start	223	End	5121

Name	OJ990426_02.0419.C124.o2.tm	Method	TBLASTX:Maize
Start	4774	End	5121
GI	none	Score	88
Exons	4774..4890, 4775..4843, 4891..5121, 4937..5101, 5023..5115		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110754	Strand	
Start	5588	End	6619
Name	OJ990426_02.0419.C124.o1.tc	Method	TBLASTX:Cress
Start	5588	End	6619
GI	none	Score	88
Exons	5588..5776, 5912..5998, 5978..6220, 5998..6246, 5999..6247, 6272..6619, 6310..6444, 6497..6619		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110754	Strand	
Start	5588	End	6619
Name	OJ990426_02.0419.C124.o3.tm	Method	TBLASTX:Maize
Start	5951	End	6619
GI	none	Score	325
Exons	5951..6619, 6290..6616		

Seq. No.	52470	Seq. ID	OJ990426_02.0419.C124
Gene No.	110754	Strand	
Start	5588	End	6619
Name	OJ990426_02.0419.C124.o1.ts	Method	TBLASTX:Soybean
Start	5960	End	6619
GI	none	Score	280
Exons	5960..6607, 5971..6195, 6212..6616, 6296..6391, 6305..6619		

Seq. No.	52471	Seq. ID	OJ990426_02.0419.C125
Gene No.	110755	Strand	+
Start	294	End	843
Name	OJ990426_02.0419.C125.o1.gs	Method	GENSCAN
Start	294	End	843
GI	none	Score	.61
Exons	294..406, 723..843		

Seq. No.	52472	Seq. ID	OJ990426_02.0419.C128
Gene No.	110756	Strand	+
Start	712	End	1224
Name	OJ990426_02.0419.C128.o1.gs	Method	GENSCAN
Start	712	End	1224
GI	none	Score	.58
Exons	712..944, 1034..1224		

Seq. No.	52473	Seq. ID	OJ990426_02.0419.C129
Gene No.	110757	Strand	+
Start	44	End	158
Name	OJ990426_02.0419.C129.o1.gs	Method	GENSCAN
Start	44	End	158
GI	none	Score	.4
Exons	44..158		

Seq. No.	52473	Seq. ID	OJ990426_02.0419.C129
Gene No.	110758	Strand	+
Start	5232	End	5570

Name	OJ990426_02.0419.C129.o2.gs	Method	GENSCAN
Start	5232	End	5570
GI	none	Score	1
Exons	5232..5570		

Seq. No.	52473	Seq. ID	OJ990426_02.0419.C129
Gene No.	110759	Strand	-
Start	5801	End	6626
Name	OJ990426_02.0419.C129.o1.tm	Method	TBLASTX:Maize
Start	194	End	404
GI	none	Score	91
Exons	194..400, 224..397, 249..404		

Seq. No.	52473	Seq. ID	OJ990426_02.0419.C129
Gene No.	110759	Strand	-
Start	5801	End	6626
Name	OJ990426_02.0419.C129.o3.gs	Method	GENSCAN
Start	5801	End	6626
GI	none	Score	.62
Exons	5801..6096, 6516..6626		

Seq. No.	52474	Seq. ID	OJ990426_02.0419.C130
Gene No.	110760	Strand	+
Start	142	End	2318
Name	OJ990426_02.0419.C130.o1.np	Method	AAT/NAP
Start	142	End	2318
GI	7340858	Score	65
Exons	142..199, 1469..1716, 2255..2318		
GI Descrip.	(AP001551) Similar to Arabidopsis thaliana chromosome 2 BAC clone F4L23 ; hypothetical protein. (AC002387) [Oryza sativa]		

Seq. No.	52474	Seq. ID	OJ990426_02.0419.C130
Gene No.	110760	Strand	+
Start	142	End	2318
Name	OJ990426_02.0419.C130.o1.gs	Method	GENSCAN
Start	1037	End	2187
GI	none	Score	.56
Exons	1037..1173, 1179..1440, 1499..1742, 1866..2187		

Seq. No.	52475	Seq. ID	OJ990426_02.0419.C131
Gene No.	110761	Strand	-
Start	1	End	1060
Name	OJ990426_02.0419.C131.o1.np	Method	AAT/NAP
Start	1	End	1060
GI	6850308	Score	571
Exons	1..811, 1024..1060		
GI Descrip.	(AC009999) Contains similarity to a Lipase-like protein from Ipomoea nil gb\|U55867 and contains a Lipase PF\|01764 domain. [Arabidopsis thaliana]		

Seq. No.	52475	Seq. ID	OJ990426_02.0419.C131
Gene No.	110761	Strand	-
Start	1	End	1060
Name	OJ990426_02.0419.C131.o1.ts	Method	TBLASTX:Soybean
Start	25	End	760
GI	none	Score	57
Exons	25..51, 58..114, 188..226, 299..358, 422..547, 426..539,		

566..616, 665..760

Seq. No.	52475	Seq. ID	OJ990426_02.0419.C131
Gene No.	110761	Strand	-
Start	1	End	1060
Name	OJ990426_02.0419.C131.o1.gs	Method	GENSCAN
Start	37	End	772
GI	none	Score	.74
Exons	37..772		

Seq. No.	52475	Seq. ID	OJ990426_02.0419.C131
Gene No.	110761	Strand	-
Start	1	End	1060
Name	OJ990426_02.0419.C131.o1.tm	Method	TBLASTX:Maize
Start	58	End	622
GI	none	Score	64
Exons	58..117, 154..219, 189..356, 299..358, 422..523, 422..547, 584..622		

Seq. No.	52476	Seq. ID	OJ990426_02.0419.C134
Gene No.	110762	Strand	-
Start	1	End	1054
Name	OJ990426_02.0419.C134.o1.np	Method	AAT/NAP
Start	1	End	1054
GI	7248392	Score	142
Exons	1..336, 957..1054		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	52477	Seq. ID	OJ990426_02.0419.C135
Gene No.	110763	Strand	+
Start	1104	End	1669
Name	OJ990426_02.0419.C135.o1.gp	Method	AAT/GAP
Start	1104	End	1669
GI	uC-osflcyp088b12b1	Score	157
Exons	1104..1212, 1649..1669		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	52477	Seq. ID	OJ990426_02.0419.C135
Gene No.	110764	Strand	+
Start	2071	End	2588
Name	OJ990426_02.0419.C135.o3.np	Method	AAT/NAP
Start	2071	End	2588
GI	7228450	Score	178
Exons	2071..2132, 2274..2389, 2475..2588		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	52477	Seq. ID	OJ990426_02.0419.C135
Gene No.	110765	Strand	-
Start	1	End	2323
Name	OJ990426_02.0419.C135.o2.np	Method	AAT/NAP
Start	1	End	2323
GI	5295955	Score	143
Exons	1..24, 407..530, 2265..2323		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	52477	Seq. ID	OJ990426_02.0419.C135
Gene No.	110765	Strand	-
Start	1	End	2323
Name	OJ990426_02.0419.C135.o1.np	Method	AAT/NAP
Start	180	End	285
GI	7248392	Score	90
Exons	180..285		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-
Start	1	End	1856
Name	OJ990426_02.0419.C136.o1.np	Method	AAT/NAP
Start	1	End	1856
GI	7487046	Score	541
Exons	1..104, 1001..1186, 1684..1856		
GI Descrip.	hypothetical protein T16B24.10 - Arabidopsis thaliana gi\|3402679\|gb\|AAC28982.1\| (AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-
Start	1	End	1856
Name	OJ990426_02.0419.C136.o1.tm	Method	TBLASTX:Maize
Start	2	End	1747
GI	none	Score	66
Exons	2..106, 2..106, 66..110, 977..1183, 997..1188, 999..1187, 1678..1737, 1684..1743, 1685..1747		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-
Start	1	End	1856
Name	OJ990426_02.0419.C136.o1.gs	Method	GENSCAN
Start	20	End	1785
GI	none	Score	.98
Exons	20..104, 1001..1186, 1684..1785		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-
Start	1	End	1856
Name	OJ990426_02.0419.C136.o1.ts	Method	TBLASTX:Soybean
Start	66	End	1187
GI	none	Score	192
Exons	66..110, 977..1183, 999..1187, 1008..1187		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-
Start	1	End	1856
Name	OJ990426_02.0419.C136.o1.gp	Method	AAT/GAP
Start	1042	End	1190
GI	3106512	Score	256
Exons	1042..1190		
GI Descrip.	3402679 6.0e-09 (AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	52478	Seq. ID	OJ990426_02.0419.C136
Gene No.	110766	Strand	-

Start	1	End	1856
Name	OJ990426_02.0419.C136.o2.ts	Method	TBLASTX:Soybean
Start	1684	End	1846
GI	none	Score	140
Exons	1684..1845, 1685..1846		

Seq. No.	52479	Seq. ID	OJ990426_02.0419.C137
Gene No.	110767	Strand	-
Start	1	End	2806
Name	OJ990426_02.0419.C137.o1.np	Method	AAT/NAP
Start	1	End	2806
GI	7487046	Score	1406
Exons	1..197, 458..676, 784..1035, 1125..1226, 1810..2007, 2085..2369, 2771..2806		
GI Descrip.	hypothetical protein T16B24.10 - Arabidopsis thaliana gi\|3402679\|gb\|AAC28982.1\| (AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	52479	Seq. ID	OJ990426_02.0419.C137
Gene No.	110767	Strand	-
Start	1	End	2806
Name	OJ990426_02.0419.C137.o1.gs	Method	GENSCAN
Start	27	End	2369
GI	none	Score	.93
Exons	27..197, 458..676, 784..1035, 1125..1226, 1810..2007, 2085..2369		

Seq. No.	52479	Seq. ID	OJ990426_02.0419.C137
Gene No.	110767	Strand	-
Start	1	End	2806
Name	OJ990426_02.0419.C137.o1.ts	Method	TBLASTX:Soybean
Start	27	End	556
GI	none	Score	102
Exons	27..200, 28..156, 78..176, 455..556, 455..556		

Seq. No.	52480	Seq. ID	OJ990426_02.0419.C138
Gene No.	110768	Strand	-
Start	132	End	2546
Name	OJ990426_02.0419.C138.o1.np	Method	AAT/NAP
Start	132	End	2423
GI	7487046	Score	655
Exons	132..214, 302..475, 1341..1468, 1575..1670, 2208..2423		
GI Descrip.	hypothetical protein T16B24.10 - Arabidopsis thaliana gi\|3402679\|gb\|AAC28982.1\| (AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	52480	Seq. ID	OJ990426_02.0419.C138
Gene No.	110768	Strand	-
Start	132	End	2546
Name	OJ990426_02.0419.C138.o1.gs	Method	GENSCAN
Start	302	End	2546
GI	none	Score	.65
Exons	302..475, 1341..1468, 1575..1679, 2202..2546		

Seq. No.	52480	Seq. ID	OJ990426_02.0419.C138
Gene No.	110768	Strand	-
Start	132	End	2546
Name	OJ990426_02.0419.C138.o1.tc	Method	TBLASTX:Cress

Start -	1340	End	2355
GI	none	Score	87
Exons	1340..1456, 1365..1463, 1578..1676, 1604..1675, 1618..1689, 2214..2354, 2233..2355		

Seq. No.	52481	Seq. ID	OJ990426_02.0419.C141
Gene No.	110769	Strand	+
Start	506	End	787
Name	OJ990426_02.0419.C141.o1.gs	Method	GENSCAN
Start	506	End	787
GI	none	Score	.61
Exons	506..511, 668..787		

Seq. No.	52482	Seq. ID	OJ990426_02.0419.C143
Gene No.	110770	Strand	+
Start	1	End	1461
Name	OJ990426_02.0419.C143.o1.np	Method	AAT/NAP
Start	1	End	1461
GI	5733874	Score	97
Exons	1..94, 1408..1461		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	52482	Seq. ID	OJ990426_02.0419.C143
Gene No.	110770	Strand	+
Start	1	End	1461
Name	OJ990426_02.0419.C143.o1.gp	Method	AAT/GAP
Start	1049	End	1461
GI	none	Score	768
Exons	1049..1461		

Seq. No.	52482	Seq. ID	OJ990426_02.0419.C143
Gene No.	110771	Strand	-
Start	293	End	977
Name	OJ990426_02.0419.C143.o1.gs	Method	GENSCAN
Start	293	End	977
GI	none	Score	.43
Exons	293..436, 504..664, 873..977		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.np	Method	AAT/NAP
Start	1	End	945
GI	5733874	Score	612
Exons	1..23, 211..431, 550..945		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.ts	Method	TBLASTX:Soybean
Start	239	End	945
GI	none	Score	67
Exons	239..439, 242..439, 258..449, 547..621, 706..945, 744..944		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+

Start	1	End	945
Name	OJ990426_02.0419.C144.o2.tm	Method	TBLASTX:Maize
Start	239	End	374
GI	none	Score	112
Exons	239..370, 239..373, 258..374		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.gs	Method	GENSCAN
Start	242	End	907
GI	none	Score	.66
Exons	242..431, 550..907		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.tc	Method	TBLASTX:Cress
Start	303	End	648
GI	none	Score	185
Exons	303..449, 304..432, 305..433, 539..616, 547..648, 549..629		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.gp	Method	AAT/GAP
Start	376	End	945
GI	47342_1.R1084	Score	815
Exons	376..428, 547..945		
GI Descrip.	'4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o1.tm	Method	TBLASTX:Maize
Start	377	End	933
GI	none	Score	80
Exons	377..439, 381..452, 547..933, 550..930		

Seq. No.	52483	Seq. ID	OJ990426_02.0419.C144
Gene No.	110772	Strand	+
Start	1	End	945
Name	OJ990426_02.0419.C144.o2.tc	Method	TBLASTX:Cress
Start	700	End	945
GI	none	Score	236
Exons	700..945, 804..944		

Seq. No.	52484	Seq. ID	OJ990426_02.0419.C147
Gene No.	110773	Strand	+
Start	1	End	384
Name	OJ990426_02.0419.C147.o1.gs	Method	GENSCAN
Start	1	End	384
GI	none	Score	1
Exons	1..384		

Seq. No.	52484	Seq. ID	OJ990426_02.0419.C147
Gene No.	110773	Strand	+
Start	1	End	384
Name	OJ990426_02.0419.C147.o1.np	Method	AAT/NAP
Start	1	End	339
GI	6453866	Score	168
Exons	1..339		
GI Descrip.	(AC011717) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52485	Seq. ID	OJ990426_02.0419.C148
Gene No.	110774	Strand	+
Start	366	End	693
Name	OJ990426_02.0419.C148.o1.gp	Method	AAT/GAP
Start	366	End	693
GI	none	Score	633
Exons	366..693		

Seq. No.	52485	Seq. ID	OJ990426_02.0419.C148
Gene No.	110775	Strand	-
Start	664	End	886
Name	OJ990426_02.0419.C148.o1.np	Method	AAT/NAP
Start	664	End	886
GI	4587566	Score	142
Exons	664..886		
GI Descrip.	(AC006550) Contains 2 PF\|00400 WD40, G-beta repeats. [Arabidopsis thaliana]		

Seq. No.	52485	Seq. ID	OJ990426_02.0419.C148
Gene No.	110775	Strand	-
Start	664	End	886
Name	OJ990426_02.0419.C148.o1.tm	Method	TBLASTX:Maize
Start	676	End	885
GI	none	Score	85
Exons	676..798, 694..795, 740..796, 753..809, 792..875, 793..885, 797..877		

Seq. No.	52485	Seq. ID	OJ990426_02.0419.C148
Gene No.	110775	Strand	-
Start	664	End	886
Name	OJ990426_02.0419.C148.o2.gp	Method	AAT/GAP
Start	780	End	886
GI	LIB3433-031-P1-K1-D7	Score	207
Exons	780..886		
GI Descrip.	'6015437/dbj\|AB008112.1\|AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	52486	Seq. ID	OJ990426_02.0419.C151
Gene No.	110776	Strand	+
Start	690	End	1129
Name	OJ990426_02.0419.C151.o1.gs	Method	GENSCAN
Start	690	End	1129
GI	none	Score	.79
Exons	690..868, 1031..1129		

Seq. No.	52486	Seq. ID	OJ990426_02.0419.C151
Gene No.	110777	Strand	-
Start	1207	End	1450

Name	OJ990426_02.0419.C151.o2.gs	Method	GENSCAN
Start	1207	End	1450
GI	none	Score	.7
Exons	1207..1355, 1387..1450		

Seq. No.	52487	Seq. ID	OJ990426_02.0419.C152
Gene No.	110778	Strand	+
Start	81	End	242
Name	OJ990426_02.0419.C152.o1.gs	Method	GENSCAN
Start	81	End	242
GI	none	Score	.86
Exons	81..131, 165..242		

Seq. No.	52487	Seq. ID	OJ990426_02.0419.C152
Gene No.	110779	Strand	-
Start	636	End	814
Name	OJ990426_02.0419.C152.o2.gs	Method	GENSCAN
Start	636	End	814
GI	none	Score	.63
Exons	636..652, 737..814		

Seq. No.	52488	Seq. ID	OJ990426_02.0419.C154
Gene No.	110780	Strand	+
Start	478	End	1007
Name	OJ990426_02.0419.C154.o1.gs	Method	GENSCAN
Start	478	End	1007
GI	none	Score	.45
Exons	478..528, 693..1007		

Seq. No.	52489	Seq. ID	OJ990426_02.0419.C155
Gene No.	110781	Strand	+
Start	58	End	1286
Name	OJ990426_02.0419.C155.o1.np	Method	AAT/NAP
Start	58	End	1286
GI	6751698	Score	157
Exons	58..186, 658..758, 1195..1286		
GI Descrip.	(AC018908) putative GCN4-complementing protein, 3'partial [Arabidopsis thaliana]		

Seq. No.	52489	Seq. ID	OJ990426_02.0419.C155
Gene No.	110781	Strand	+
Start	58	End	1286
Name	OJ990426_02.0419.C155.o1.gs	Method	GENSCAN
Start	634	End	1265
GI	none	Score	.66
Exons	634..758, 1195..1265		

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o1.np	Method	AAT/NAP
Start	1	End	4854
GI	6465806	Score	795
Exons	1..30, 1479..1583, 1936..1980, 2090..2155, 2239..2286, 2373..2468, 2548..2589, 2709..2912, 3276..3429, 3584..3774, 4140..4226, 4463..4735, 4818..4854		
GI Descrip.	(AJ130878) GCN4-complementing protein (GCP1) [Arabidopsis		

thaliana]

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o1.gs	Method	GENSCAN
Start	177	End	4717
GI	none	Score	.7
Exons	177..207, 854..934, 1504..1583, 2090..2155, 2239..2286, 2709..2924, 3276..3398, 3562..3774, 4140..4226, 4469..4717		

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o2.ts	Method	TBLASTX:Soybean
Start	2087	End	2756
GI	none	Score	73
Exons	2087..2155, 2236..2289, 2247..2288, 2368..2469, 2369..2473, 2372..2479, 2373..2501, 2545..2592, 2546..2596, 2548..2592, 2706..2756		

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o1.tc	Method	TBLASTX:Cress
Start	2364	End	2840
GI	none	Score	129
Exons	2364..2465, 2367..2465, 2372..2473, 2548..2592, 2706..2840, 2715..2801		

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o1.gp	Method	AAT/GAP
Start	3598	End	4578
GI	LIB3434-026-P1-K1-B6	Score	628
Exons	3598..3774, 4140..4226, 4469..4578		
GI Descrip.	'1931654 2.0e-19 (U95973) BRCA1-associated RING domain protein isolog [Arabidopsis thaliana]'		

Seq. No.	52490	Seq. ID	OJ990426_02.0419.C156
Gene No.	110782	Strand	+
Start	1	End	4854
Name	OJ990426_02.0419.C156.o1.ts	Method	TBLASTX:Soybean
Start	4579	End	4719
GI	none	Score	221
Exons	4579..4719, 4580..4711, 4591..4719		

Seq. No.	52491	Seq. ID	OJ990426_02.0419.C157
Gene No.	110783	Strand	+
Start	1	End	1936
Name	OJ990426_02.0419.C157.o1.gp	Method	AAT/GAP
Start	1	End	124
GI	LIB3434-026-P1-K1-B6	Score	206
Exons	1..124		
GI Descrip.	'1931654 2.0e-19 (U95973) BRCA1-associated RING domain protein isolog [Arabidopsis thaliana]'		

Seq. No.	52491	Seq. ID	OJ990426_02.0419.C157
Gene No.	110783	Strand	+
Start	1	End	1936
Name	OJ990426_02.0419.C157.o1.np	Method	AAT/NAP
Start	1	End	1936
GI	1931654	Score	290
Exons	1..263, 1142..1263, 1897..1936		
GI Descrip.	(U95973) BRCA1-associated RING domain protein isolog [Arabidopsis thaliana]		

Seq. No.	52491	Seq. ID	OJ990426_02.0419.C157
Gene No.	110783	Strand	+
Start	1	End	1936
Name	OJ990426_02.0419.C157.o1.ts	Method	TBLASTX:Soybean
Start	125	End	1210
GI	none	Score	221
Exons	125..265, 126..257, 137..265, 1142..1210		

Seq. No.	52491	Seq. ID	OJ990426_02.0419.C157
Gene No.	110783	Strand	+
Start	1	End	1936
Name	OJ990426_02.0419.C157.o1.gs	Method	GENSCAN
Start	131	End	1263
GI	none	Score	.7
Exons	131..263, 1142..1263		

Seq. No.	52492	Seq. ID	OJ990426_02.0419.C158
Gene No.	110784	Strand	+
Start	1	End	2453
Name	OJ990426_02.0419.C158.o1.gp	Method	AAT/GAP
Start	1	End	1498
GI	3107662	Score	454
Exons	1..69, 1311..1498		

Seq. No.	52492	Seq. ID	OJ990426_02.0419.C158
Gene No.	110784	Strand	+
Start	1	End	2453
Name	OJ990426_02.0419.C158.o1.np	Method	AAT/NAP
Start	1	End	2444
GI	1931654	Score	360
Exons	1..69, 1311..1726, 2333..2444		
GI Descrip.	(U95973) BRCA1-associated RING domain protein isolog [Arabidopsis thaliana]		

Seq. No.	52492	Seq. ID	OJ990426_02.0419.C158
Gene No.	110784	Strand	+
Start	1	End	2453
Name	OJ990426_02.0419.C158.o1.gs	Method	GENSCAN
Start	1305	End	2453
GI	none	Score	.73
Exons	1305..1726, 2333..2453		

Seq. No.	52492	Seq. ID	OJ990426_02.0419.C158
Gene No.	110785	Strand	-
Start	3443	End	3546
Name	OJ990426_02.0419.C158.o1.tm	Method	TBLASTX:Maize

Start	1	End	2440
GI	none	Score	82
Exons	1..51, 1..48, 3..53, 1308..1727, 1308..1727, 1309..1737, 1310..1747, 1480..1728, 2310..2438, 2321..2440, 2333..2440		

Seq. No.	52492	Seq. ID	OJ990426_02.0419.C158
Gene No.	110785	Strand	-
Start	3443	End	3546
Name	OJ990426_02.0419.C158.o2.np	Method	AAT/NAP
Start	3443	End	3546
GI	7340920	Score	112
Exons	3443..3546		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52493	Seq. ID	OJ990426_02.0419.C159
Gene No.	110786	Strand	-
Start	99	End	641
Name	OJ990426_02.0419.C159.o1.gs	Method	GENSCAN
Start	99	End	641
GI	none	Score	.74
Exons	99..226, 304..447, 501..641		

Seq. No.	52494	Seq. ID	OJ990426_02.0419.C160
Gene No.	110787	Strand	-
Start	620	End	689
Name	OJ990426_02.0419.C160.o1.gs	Method	GENSCAN
Start	620	End	689
GI	none	Score	.54
Exons	620..689		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110788	Strand	+
Start	20	End	810
Name	OJ990426_02.0419.C162.o1.gs	Method	GENSCAN
Start	20	End	810
GI	none	Score	.81
Exons	20..119, 358..810		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643
Name	OJ990426_02.0419.C162.o1.tc	Method	TBLASTX:Cress
Start	384	End	1643
GI	none	Score	81
Exons	384..497, 744..815, 1344..1643, 1425..1628, 1490..1642		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643
Name	OJ990426_02.0419.C162.o2.tm	Method	TBLASTX:Maize
Start	623	End	812
GI	none	Score	203
Exons	623..790, 624..812		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643

Name	OJ990426_02.0419.C162.o1.np	Method	AAT/NAP
Start	734	End	1643
GI	6665543	Score	356
Exons	734..810, 975..1064, 1216..1643		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643
Name	OJ990426_02.0419.C162.o1.tm	Method	TBLASTX:Maize
Start	1045	End	1643
GI	none	Score	84
Exons	1045..1131, 1046..1129, 1214..1402, 1218..1643, 1287..1643		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643
Name	OJ990426_02.0419.C162.o1.ts	Method	TBLASTX:Soybean
Start	1293	End	1643
GI	none	Score	57
Exons	1293..1370, 1296..1550, 1548..1643		

Seq. No.	52495	Seq. ID	OJ990426_02.0419.C162
Gene No.	110789	Strand	+
Start	734	End	1643
Name	OJ990426_02.0419.C162.o1.tw	Method	TBLASTX:Wheat
Start	1353	End	1643
GI	none	Score	324
Exons	1353..1643, 1405..1515, 1490..1642		

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o1.np	Method	AAT/NAP
Start	1	End	1068
GI	6587816	Score	822
Exons	1..1068		
GI Descrip.	(AC010924) Contains similarity to gb\|AJ009696 wall-associated kinase 1 from Arabidopsis thaliana and contains a protein kinase PF\|00069 domain.		

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o1.tm	Method	TBLASTX:Maize
Start	21	End	991
GI	none	Score	405
Exons	21..446, 141..215, 221..439, 453..770, 524..769, 525..770, 656..775, 794..991, 922..972		

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o1.ts	Method	TBLASTX:Soybean
Start	21	End	774
GI	none	Score	57
Exons	21..98, 24..278, 111..230, 276..425, 287..415, 450..773,		

456..752, 508..774, 542..772

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o1.tc	Method	TBLASTX:Cress
Start	72	End	1006
GI	none	Score	364
Exons	72..425, 153..392, 218..415, 277..441, 280..417, 444..773, 524..751, 812..1006		

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o1.tw	Method	TBLASTX:Wheat
Start	81	End	485
GI	none	Score	403
Exons	81..425, 133..426, 133..243, 218..406, 270..446, 447..485		

Seq. No.	52496	Seq. ID	OJ990426_02.0419.C163
Gene No.	110790	Strand	+
Start	1	End	1068
Name	OJ990426_02.0419.C163.o2.tw	Method	TBLASTX:Wheat
Start	527	End	775
GI	none	Score	122
Exons	527..610, 528..635, 636..773, 650..775		

Seq. No.	52497	Seq. ID	OJ990426_02.0419.C164
Gene No.	110791	Strand	-
Start	3239	End	3583
Name	OJ990426_02.0419.C164.o1.tm	Method	TBLASTX:Maize
Start	3150	End	3582
GI	none	Score	92
Exons	3150..3392, 3247..3381, 3468..3581, 3484..3582		

Seq. No.	52497	Seq. ID	OJ990426_02.0419.C164
Gene No.	110791	Strand	-
Start	3239	End	3583
Name	OJ990426_02.0419.C164.o1.np	Method	AAT/NAP
Start	3239	End	3583
GI	3810596	Score	141
Exons	3239..3583		
GI Descrip.	(AC005398) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o1.np	Method	AAT/NAP
Start	1	End	3362
GI	6466937	Score	1825
Exons	1..3362		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-

Start	1	End	3362
Name	OJ990426_02.0419.C165.o3.tm	Method	TBLASTX:Maize
Start	3	End	428
GI	none	Score	161
Exons	3..428, 7..342, 21..407		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o1.ts	Method	TBLASTX:Soybean
Start	21	End	393
GI	none	Score	156
Exons	21..392, 112..393		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o2.tw	Method	TBLASTX:Wheat
Start	261	End	659
GI	none	Score	62
Exons	261..401, 261..659		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o4.tm	Method	TBLASTX:Maize
Start	429	End	836
GI	none	Score	55
Exons	429..665, 489..635, 654..836, 655..834		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o1.tm	Method	TBLASTX:Maize
Start	837	End	1373
GI	none	Score	157
Exons	837..1373, 855..1373, 868..1368		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o4.ts	Method	TBLASTX:Soybean
Start	840	End	1094
GI	none	Score	121
Exons	840..1094, 889..1092		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o3.tw	Method	TBLASTX:Wheat
Start	1005	End	1403
GI	none	Score	132
Exons	1005..1403, 1039..1395		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362

Name	OJ990426_02.0419.C165.o2.ts	Method	TBLASTX:Soybean
Start	1128	End	1491
GI	none	Score	133
Exons	1128..1478, 1132..1491		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o1.tw	Method	TBLASTX:Wheat
Start	1455	End	1937
GI	none	Score	115
Exons	1455..1937, 1485..1817, 1489..1857		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o2.tm	Method	TBLASTX:Maize
Start	1558	End	2085
GI	none	Score	205
Exons	1558..2085, 1560..2036		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o3.ts	Method	TBLASTX:Soybean
Start	1587	End	1901
GI	none	Score	234
Exons	1587..1901		

Seq. No.	52498	Seq. ID	OJ990426_02.0419.C165
Gene No.	110792	Strand	-
Start	1	End	3362
Name	OJ990426_02.0419.C165.o5.tm	Method	TBLASTX:Maize
Start	2154	End	2773
GI	none	Score	134
Exons	2154..2237, 2319..2567, 2645..2773		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110793	Strand	-
Start	1	End	2800
Name	OJ990426_02.0419.C172.o1.np	Method	AAT/NAP
Start	1	End	2800
GI	4680179	Score	4746
Exons	1..2800		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110794	Strand	-
Start	3055	End	3873
Name	OJ990426_02.0419.C172.o2.np	Method	AAT/NAP
Start	3055	End	3873
GI	5042448	Score	1111
Exons	3055..3873		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172

Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o5.tw	Method	TBLASTX:Wheat
Start	4	End	164
GI	none	Score	199
Exons	4..156, 4..156, 6..164		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o1.tm	Method	TBLASTX:Maize
Start	9	End	545
GI	none	Score	49
Exons	9..545, 91..228, 268..534		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o2.ts	Method	TBLASTX:Soybean
Start	12	End	257
GI	none	Score	198
Exons	12..257		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o2.tw	Method	TBLASTX:Wheat
Start	165	End	566
GI	none	Score	270
Exons	165..566, 199..546, 464..565		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o1.ts	Method	TBLASTX:Soybean
Start	279	End	674
GI	none	Score	110
Exons	279..470, 279..638, 280..543, 642..674	558..638, 595..645, 630..674,	

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o2.tm	Method	TBLASTX:Maize
Start	561	End	1028
GI	none	Score	131
Exons	561..1028, 595..957		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o1.tw	Method	TBLASTX:Wheat
Start	615	End	1097
GI	none	Score	165
Exons	615..1097, 624..968, 658..993		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172

Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o3.ts	Method	TBLASTX:Soybean
Start	747	End	1061
GI	none	Score	60
Exons	747..1061, 748..945		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o4.tw	Method	TBLASTX:Wheat
Start	1254	End	1676
GI	none	Score	109
Exons	1254..1442, 1261..1416, 1482..1676, 1528..1626		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o3.tm	Method	TBLASTX:Maize
Start	2019	End	2315
GI	none	Score	106
Exons	2019..2315, 2031..2315, 2128..2298		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o3.tw	Method	TBLASTX:Wheat
Start	2196	End	2555
GI	none	Score	122
Exons	2196..2525, 2196..2555, 2197..2529		

Seq. No.	52499	Seq. ID	OJ990426_02.0419.C172
Gene No.	110795	Strand	-
Start	4501	End	4595
Name	OJ990426_02.0419.C172.o1.gp	Method	AAT/GAP
Start	4501	End	4595
GI	1631463	Score	170
Exons	4501..4595		
GI Descrip.	4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	52500	Seq. ID	OJ990426_02.0419.C173
Gene No.	110796	Strand	+
Start	1	End	5303
Name	OJ990426_02.0419.C173.o1.np	Method	AAT/NAP
Start	1	End	4869
GI	4680183	Score	214
Exons	1..33, 4099..4169, 4780..4869		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52500	Seq. ID	OJ990426_02.0419.C173
Gene No.	110796	Strand	+
Start	1	End	5303
Name	OJ990426_02.0419.C173.o1.gs	Method	GENSCAN
Start	608	End	1800
GI	none	Score	.43

Exons 608..636, 919..1093, 1123..1217, 1467..1800

Seq. No.	52500	Seq. ID	OJ990426_02.0419.C173
Gene No.	110796	Strand	+
Start	1	End	5303
Name	OJ990426_02.0419.C173.o1.gp	Method	AAT/GAP
Start	3956	End	5303
GI	1631463	Score	471
Exons	3956..4168, 5235..5303		
GI Descrip.	4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	52500	Seq. ID	OJ990426_02.0419.C173
Gene No.	110797	Strand	-
Start	4124	End	5757
Name	OJ990426_02.0419.C173.o2.gs	Method	GENSCAN
Start	4124	End	5757
GI	none	Score	.81
Exons	4124..4164, 5252..5298, 5612..5757		

Seq. No.	52501	Seq. ID	OJ990426_02.0419.C174
Gene No.	110798	Strand	-
Start	451	End	1044
Name	OJ990426_02.0419.C174.o1.gp	Method	AAT/GAP
Start	451	End	1044
GI	1631463	Score	208
Exons	451..551, 1004..1044		
GI Descrip.	4680178/gb\|AF111709.1\|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110799	Strand	+
Start	1	End	1167
Name	OJ990426_02.0419.C175.o1.np	Method	AAT/NAP
Start	1	End	1161
GI	5689236	Score	316
Exons	1..58, 375..451, 546..597, 703..780, 885..955, 1080..1161		
GI Descrip.	(AB024291) ZmRR2 [Zea mays] gi\|6009897\|dbj\|BAA85113.1\| (AB031012) response regulator 2 [Zea mays]		

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110799	Strand	+
Start	1	End	1167
Name	OJ990426_02.0419.C175.o1.gs	Method	GENSCAN
Start	184	End	1167
GI	none	Score	.87
Exons	184..268, 320..451, 546..592, 703..780, 885..955, 1080..1167		

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110800	Strand	-
Start	1522	End	1779
Name	OJ990426_02.0419.C175.o1.tm	Method	TBLASTX:Maize
Start	390	End	1158
GI	none	Score	86
Exons	390..470, 391..471, 545..586, 702..797, 706..780, 879..956,		

884..958, 884..961, 1072..1158, 1080..1154

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110800	Strand	-
Start	1522	End	1779
Name	OJ990426_02.0419.C175.o1.tc	Method	TBLASTX:Cress
Start	391	End	1152
GI	none	Score	48
Exons	391..462, 544..594, 545..589, 708..782, 712..780, 869..961, 879..956, 1047..1151, 1072..1152		

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110800	Strand	-
Start	1522	End	1779
Name	OJ990426_02.0419.C175.o1.ts	Method	TBLASTX:Soybean
Start	700	End	1146
GI	none	Score	99
Exons	700..780, 711..782, 872..961, 879..956, 1072..1146, 1074..1133		

Seq. No.	52502	Seq. ID	OJ990426_02.0419.C175
Gene No.	110800	Strand	-
Start	1522	End	1779
Name	OJ990426_02.0419.C175.o2.gs	Method	GENSCAN
Start	1522	End	1779
GI	none	Score	.67
Exons	1522..1779		

Seq. No.	52503	Seq. ID	OJ990426_02.0419.C176
Gene No.	110801	Strand	+
Start	1	End	506
Name	OJ990426_02.0419.C176.o1.np	Method	AAT/NAP
Start	1	End	506
GI	7339707	Score	139
Exons	1..89, 199..280, 358..506		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52503	Seq. ID	OJ990426_02.0419.C176
Gene No.	110802	Strand	-
Start	22	End	784
Name	OJ990426_02.0419.C176.o1.gs	Method	GENSCAN
Start	22	End	784
GI	none	Score	.47
Exons	22..194, 727..784		

Seq. No.	52504	Seq. ID	OJ990426_02.0419.C182
Gene No.	110803	Strand	-
Start	1	End	814
Name	OJ990426_02.0419.C182.o1.np	Method	AAT/NAP
Start	1	End	814
GI	4454668	Score	644
Exons	1..814		
GI Descrip.	(AF060119) restriction endonuclease [Pasteurella haemolytica]		

Seq. No.	52504	Seq. ID	OJ990426_02.0419.C182
Gene No.	110803	Strand	-
Start	1	End	814
Name	OJ990426_02.0419.C182.o1.gs	Method	GENSCAN

Start	156	End	800
GI	none	Score	.84
Exons	156..800		

Seq. No.	52505	Seq. ID	OJ990816_08.0419.C1
Gene No.	110804	Strand	-
Start	1	End	863
Name	OJ990816_08.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	863
GI	4587598	Score	220
Exons	1..213, 288..354, 602..635, 726..863		
GI Descrip.	(AC006951) 3-oxoacyl carrier protein synthase [Arabidopsis thaliana]		

Seq. No.	52506	Seq. ID	OJ990816_08.0419.C2
Gene No.	110805	Strand	+
Start	3950	End	5773
Name	OJ990816_08.0419.C2.o3.np	Method	AAT/NAP
Start	3950	End	5529
GI	6721558	Score	265
Exons	3950..4049, 4751..4888, 5323..5529		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi\|6815083\|dbj\|BAA90369.1\| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52506	Seq. ID	OJ990816_08.0419.C2
Gene No.	110805	Strand	+
Start	3950	End	5773
Name	OJ990816_08.0419.C2.o4.np	Method	AAT/NAP
Start	4287	End	5773
GI	6721561	Score	651
Exons	4287..4350, 4938..5128, 5199..5257, 5327..5773		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6815086\|dbj\|BAA90372.1\| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52506	Seq. ID	OJ990816_08.0419.C2
Gene No.	110806	Strand	-
Start	1	End	1343
Name	OJ990816_08.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1325
GI	4587598	Score	224
Exons	1..23, 103..201, 1041..1325		
GI Descrip.	(AC006951) 3-oxoacyl carrier protein synthase [Arabidopsis thaliana]		

Seq. No.	52506	Seq. ID	OJ990816_08.0419.C2
Gene No.	110806	Strand	-
Start	1	End	1343
Name	OJ990816_08.0419.C2.o1.gs	Method	GENSCAN
Start	87	End	1343
GI	none	Score	.92
Exons	87..210, 990..1343		

Seq. No.	52506	Seq. ID	OJ990816_08.0419.C2

Gene No.	110807	Strand	-
Start	1414	End	3501
Name	OJ990816_08.0419.C2.o2.np	Method	AAT/NAP
Start	1414	End	3501
GI	7523517	Score	202
Exons	1414..1433, 3005..3059, 3203..3501		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o1.gs	Method	GENSCAN
Start	237	End	1726
GI	none	Score	.79
Exons	237..1079, 1179..1726		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o1.np	Method	AAT/NAP
Start	240	End	1780
GI	5902445	Score	1350
Exons	240..1484, 1524..1780		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	249	End	857
GI	none	Score	62
Exons	249..380, 250..375, 405..857, 601..708, 757..843		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	285	End	551
GI	none	Score	141
Exons	285..368, 369..551		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	981	End	1364
GI	none	Score	188
Exons	981..1364, 982..1356		

Seq. No.	52507	Seq. ID	OJ990816_08.0419.C3
Gene No.	110808	Strand	-
Start	237	End	1780
Name	OJ990816_08.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1059	End	1364
GI	none	Score	180
Exons	1059..1364, 1060..1347		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110809	Strand	-
Start	1	End	4527
Name	OJ990816_08.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	4527
GI	7228457	Score	1798
Exons	1..26, 256..402, 524..1415, 1470..3252, 3534..3667, 4410..4527		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110809	Strand	-
Start	1	End	4527
Name	OJ990816_08.0419.C4.o1.gs	Method	GENSCAN
Start	8	End	4518
GI	none	Score	.4
Exons	8..441, 492..1292, 1380..1838, 1892..3533, 3696..3857, 4050..4400, 4445..4518		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	25	End	280
GI	none	Score	100
Exons	25..279, 50..280		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	289	End	719
GI	none	Score	126
Exons	289..456, 476..592, 576..719		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	344	End	767
GI	none	Score	70
Exons	344..460, 346..474, 467..592, 468..593, 486..662, 576..767, 607..762		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	467	End	825
GI	none	Score	118
Exons	467..592, 582..821, 607..825		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o1.tm	Method	TBLASTX:Maize

Start	852	End	1208
GI	none	Score	212
Exons	852..1208, 880..1146, 906..1154		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	882	End	1338
GI	none	Score	354
Exons	882..1337, 883..1338		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	933	End	1298
GI	none	Score	112
Exons	933..1067, 1074..1298		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	1487	End	1975
GI	none	Score	38
Exons	1487..1540, 1530..1763, 1540..1605, 1648..1761, 1793..1975, 1866..1967		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	2606	End	2998
GI	none	Score	88
Exons	2606..2881, 2607..2834, 2840..2953, 2892..2942, 2954..2998		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	2720	End	2959
GI	none	Score	180
Exons	2720..2959		

Seq. No.	52508	Seq. ID	OJ990816_08.0419.C4
Gene No.	110810	Strand	-
Start	4445	End	4962
Name	OJ990816_08.0419.C4.o2.np	Method	AAT/NAP
Start	4445	End	4962
GI	7523517	Score	204
Exons	4445..4518, 4663..4962		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52509	Seq. ID	OJ990816_08.0419.C5
Gene No.	110811	Strand	+
Start	244	End	1052

Name	OJ990816_08.0419.C5.o1.gs	Method	GENSCAN
Start	244	End	1052
GI	none	Score	.78
Exons	244..335, 1004..1052		

Seq. No.	52509	Seq. ID	OJ990816_08.0419.C5
Gene No.	110812	Strand	-
Start	1	End	1316
Name	OJ990816_08.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1316
GI	6069646	Score	176
Exons	1..411, 1296..1316		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52510	Seq. ID	OJ990816_08.0419.C6
Gene No.	110813	Strand	+
Start	1	End	813
Name	OJ990816_08.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	813
GI	6063540	Score	70
Exons	1..30, 486..607, 786..813		
GI Descrip.	(AP000615) similar to OsMlo-h1. (Z95353) [Oryza sativa]		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236
Name	OJ990816_08.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1236
GI	6633848	Score	477
Exons	1..24, 717..1103, 1199..1236		
GI Descrip.	(AC008047) F2K11.18 [Arabidopsis thaliana]		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236
Name	OJ990816_08.0419.C8.o1.gs	Method	GENSCAN
Start	202	End	1082
GI	none	Score	.49
Exons	202..267, 684..1082		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236
Name	OJ990816_08.0419.C8.o1.gp	Method	AAT/GAP
Start	425	End	1029
GI	16664_1.R1084	Score	1159
Exons	425..1029		
GI Descrip.	'2660670 6.0e-29 (AC002342) putative Cu2+-transporting ATPase [Arabidopsis thaliana]'		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236

Name	OJ990816_08.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	714	End	1234
GI	none	Score	365
Exons	714..1106, 733..1110, 1178..1234		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236
Name	OJ990816_08.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	732	End	1113
GI	none	Score	132
Exons	732..929, 733..927, 915..1106, 919..1113		

Seq. No.	52511	Seq. ID	OJ990816_08.0419.C8
Gene No.	110814	Strand	-
Start	1	End	1236
Name	OJ990816_08.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	732	End	1038
GI	none	Score	289
Exons	732..1037, 733..1038		

Seq. No.	52512	Seq. ID	OJ990816_08.0419.C9
Gene No.	110815	Strand	-
Start	242	End	1472
Name	OJ990816_08.0419.C9.o1.gp	Method	AAT/GAP
Start	242	End	1472
GI	3279_2.R1084	Score	503
Exons	242..393, 1168..1296, 1404..1472		
GI Descrip.	'2689720 6.0e-33 (AF037168) DnaJ homologue [Arabidopsis thaliana]'		

Seq. No.	52512	Seq. ID	OJ990816_08.0419.C9
Gene No.	110816	Strand	-
Start	2490	End	2807
Name	OJ990816_08.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	241	End	424
GI	none	Score	246
Exons	241..399, 242..424		

Seq. No.	52512	Seq. ID	OJ990816_08.0419.C9
Gene No.	110816	Strand	-
Start	2490	End	2807
Name	OJ990816_08.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	241	End	382
GI	none	Score	235
Exons	241..381, 242..382, 242..382		

Seq. No.	52512	Seq. ID	OJ990816_08.0419.C9
Gene No.	110816	Strand	-
Start	2490	End	2807
Name	OJ990816_08.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	242	End	375
GI	none	Score	166
Exons	242..370, 244..375		

Seq. No.	52512	Seq. ID	OJ990816_08.0419.C9
Gene No.	110816	Strand	-

Start	2490	End	2807
Name	OJ990816_08.0419.C9.o1.gs	Method	GENSCAN
Start	2490	End	2807
GI	none	Score	.75
Exons	2490..2577, 2638..2807		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.gp	Method	AAT/GAP
Start	1154	End	3618
GI	2312476	Score	726
Exons	1154..1272, 3071..3169, 3244..3345, 3426..3485, 3570..3618		
GI Descrip.	2689720 6.0e-33 (AF037168) DnaJ homologue [Arabidopsis thaliana]		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.gs	Method	GENSCAN
Start	1174	End	4438
GI	none	Score	.92
Exons	1174..1272, 3071..3169, 3244..3345, 3426..3485, 3570..3676, 3784..3866, 4042..4132, 4231..4438		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.np	Method	AAT/NAP
Start	1174	End	4447
GI	2689720	Score	674
Exons	1174..1272, 3071..3169, 3244..3345, 3426..3485, 3570..3676, 3784..3866, 4042..4127, 4223..4447		
GI Descrip.	(AF037168) DnaJ homologue [Arabidopsis thaliana]		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	3049	End	3480
GI	none	Score	177
Exons	3049..3171, 3065..3169, 3067..3171, 3239..3298, 3241..3345, 3243..3344, 3423..3479, 3426..3479, 3427..3480		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	3062	End	4135
GI	none	Score	133
Exons	3062..3169, 3073..3156, 3241..3342, 3243..3350, 3567..3677, 3569..3676, 3718..3867, 3719..3871, 4010..4135, 4041..4133		

Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3062	End	3646

GI	none	Score	163
Exons	3062..3169, 3073..3171, 3080..3175, 3085..3171, 3239..3316, 3241..3342, 3243..3365, 3429..3491, 3521..3646, 3567..3644		
Seq. No.	52513	Seq. ID	OJ990816_08.0419.C10
Gene No.	110817	Strand	+
Start	1154	End	4448
Name	OJ990816_08.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	3797	End	4448
GI	none	Score	82
Exons	3797..3871, 3797..3868, 4037..4132, 4041..4133, 4223..4351, 4261..4359, 4264..4359, 4359..4448, 4359..4448		
Seq. No.	52514	Seq. ID	OJ990816_08.0419.C11
Gene No.	110818	Strand	+
Start	1450	End	2836
Name	OJ990816_08.0419.C11.o2.gp	Method	AAT/GAP
Start	1450	End	2836
GI	none	Score	700
Exons	1450..1598, 2390..2448, 2560..2652, 2758..2836		
Seq. No.	52514	Seq. ID	OJ990816_08.0419.C11
Gene No.	110818	Strand	+
Start	1450	End	2836
Name	OJ990816_08.0419.C11.o1.gs	Method	GENSCAN
Start	1535	End	1919
GI	none	Score	.48
Exons	1535..1598, 1822..1919		
Seq. No.	52514	Seq. ID	OJ990816_08.0419.C11
Gene No.	110819	Strand	-
Start	159	End	246
Name	OJ990816_08.0419.C11.o1.gp	Method	AAT/GAP
Start	159	End	246
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	159..246		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	52514	Seq. ID	OJ990816_08.0419.C11
Gene No.	110820	Strand	
Start	1534	End	2834
Name	OJ990816_08.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1534	End	2834
GI	none	Score	79
Exons	1534..1599, 2388..2447, 2389..2448, 2389..2448, 2543..2650, 2554..2652, 2556..2651, 2557..2652, 2748..2831, 2757..2834		
Seq. No.	52515	Seq. ID	OJ990816_08.0419.C13
Gene No.	110821	Strand	+
Start	533	End	756
Name	OJ990816_08.0419.C13.o1.gs	Method	GENSCAN
Start	533	End	756
GI	none	Score	.89
Exons	533..756		

Seq. No.	52516	Seq. ID	OJ990816_08.0419.C14
Gene No.	110822	Strand	+
Start	1	End	1349
Name	OJ990816_08.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1337
GI	3953482	Score	531
Exons	1..38, 401..1337		
GI Descrip.	(AC002328) F22O2.27 [Arabidopsis thaliana]		

Seq. No.	52516	Seq. ID	OJ990816_08.0419.C14
Gene No.	110822	Strand	+
Start	1	End	1349
Name	OJ990816_08.0419.C14.o1.gs	Method	GENSCAN
Start	78	End	1349
GI	none	Score	.85
Exons	78..1349		

Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1059
GI	6630685	Score	1426
Exons	1..1059		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	1	End	270
GI	none	Score	321
Exons	1..270, 1..267, 3..269		

Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.gs	Method	GENSCAN
Start	169	End	4066
GI	none	Score	.79
Exons	169..370, 572..745, 2724..3458, 3495..4066		

Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	208	End	639
GI	none	Score	102
Exons	208..369, 382..639		

Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	394	End	1156
GI	none	Score	907

Exons	394..1056, 396..1070, 733..1071, 957..1061, 959..1072, 959..1081, 1100..1156		
Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	403	End	1068
GI	none	Score	308
Exons	403..786, 408..779, 415..786, 820..1068, 828..995		
Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	583	End	1041
GI	none	Score	65
Exons	583..672, 676..810, 796..1041		
Seq. No.	52517	Seq. ID	OJ990816_08.0419.C15
Gene No.	110823	Strand	+
Start	1	End	4066
Name	OJ990816_08.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	676	End	1008
GI	none	Score	105
Exons	676..801, 696..797, 820..1008, 876..995		
Seq. No.	52518	Seq. ID	OJ990816_08.0419.C16
Gene No.	110824	Strand	+
Start	1	End	772
Name	OJ990816_08.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	772
GI	1491621	Score	92
Exons	1..38, 136..300, 632..772		
GI Descrip.	(Z78205) UL36 [Bovine herpesvirus 1] gi\|2653311\|emb\|CAA06097\| (AJ004801) very large virion protein (tegument) [Bovine herpesvirus type 1.1]		
Seq. No.	52518	Seq. ID	OJ990816_08.0419.C16
Gene No.	110824	Strand	+
Start	1	End	772
Name	OJ990816_08.0419.C16.o1.gs	Method	GENSCAN
Start	83	End	410
GI	none	Score	.64
Exons	83..135, 181..410		
Seq. No.	52519	Seq. ID	OJ990816_08.0419.C17
Gene No.	110825	Strand	+
Start	92	End	388
Name	OJ990816_08.0419.C17.o1.gp	Method	AAT/GAP
Start	92	End	388
GI	35223_1.R1084	Score	533
Exons	92..388		
GI Descrip.	'4557587/ref\|NP_000128.1\|pFAH\| 1.0e-38 fumarylacetoacetase >gi_119778_sp_P16930_FAAA_HUMAN FUMARYLACETOACETASE (FUMARYLACETOACETATE HYDROLASE) (BETA-DIKETONASE) (FAA) >gi_106043_pir__A37926 fumarylacetoacetase (EC 3.7.1.2) - human		

>gi_182393 (M55150) fumarylacetoacetate hydrolase [Homo sapiens]'

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	1227
GI	548492	Score	443
Exons	1..126, 673..1053, 1122..1227		
GI Descrip.	EXOPOLYGALACTURONASE PRECURSOR (EXOPG) (PECTINASE) (GALACTURAN 1,4-ALPHA-GALACTURONIDASE) gi\|629853\|pir\|\|S30066 polygalacturonase - maize gi\|288379\|emb\|CAA45751.1\| (X64408) polygalacturonase [Zea mays]		

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	1	End	945
GI	none	Score	81
Exons	1..126, 5..127, 673..945, 674..799, 875..943		

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	7	End	1033
GI	none	Score	114
Exons	7..126, 11..127, 673..1032, 677..799, 875..1033		

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.gs	Method	GENSCAN
Start	16	End	1275
GI	none	Score	.97
Exons	16..126, 673..1275		

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	685	End	1009
GI	none	Score	60
Exons	685..798, 859..1008, 875..1009		

Seq. No.	52520	Seq. ID	OJ990816_08.0419.C18
Gene No.	110826	Strand	-
Start	1	End	1288
Name	OJ990816_08.0419.C18.o1.gp	Method	AAT/GAP
Start	791	End	1288
GI	uC-osf1M202035c05b1	Score	968
Exons	791..1288		
GI Descrip.	'4826572/emb\|CAB42886.1\| 3.0e-12 (AJ238848) polygalacturonase [Phleum pratense]'		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.gp	Method	AAT/GAP
Start	1	End	589
GI	uC-osflm202106g07b1	Score	934
Exons	1..238, 347..589		
GI Descrip.	'4760370/gb\|AAD29109.1\|AF082565_1 4.0e-36 (AF082565) ATP dependent copper transporter [Arabidopsis thaliana] >gi_4760380_gb_AAD29115.1_ (AF091112) ATP dependent copper transporter [Arabidopsis thaliana]'		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.np	Method	AAT/NAP
Start	109	End	1644
GI	6633848	Score	898
Exons	109..254, 327..601, 1107..1274, 1357..1644		
GI Descrip.	(AC008047) F2K11.18 [Arabidopsis thaliana]		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	113	End	1172
GI	none	Score	56
Exons	113..241, 156..239, 329..577, 344..601, 345..602, 1086..1172		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	116	End	605
GI	none	Score	53
Exons	116..238, 156..239, 329..586, 330..605, 332..601		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.gs	Method	GENSCAN
Start	116	End	1568
GI	none	Score	.66
Exons	116..238, 347..558, 985..1102, 1107..1274, 1357..1568		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	176	End	1277
GI	none	Score	46
Exons	176..238, 183..239, 332..499, 357..476, 1095..1277		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.tm	Method	TBLASTX:Maize

Start	1104	End	1509
GI	none	Score	213
Exons	1104..1274, 1104..1277, 1105..1275, 1199..1297, 1354..1509, 1354..1509		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	1369	End	1639
GI	none	Score	46
Exons	1369..1638, 1373..1429, 1386..1601, 1511..1639		

Seq. No.	52521	Seq. ID	OJ990816_08.0419.C19
Gene No.	110827	Strand	-
Start	1	End	1644
Name	OJ990816_08.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	1378	End	1635
GI	none	Score	105
Exons	1378..1635, 1378..1635		

Seq. No.	52522	Seq. ID	OJ990816_08.0419.C21
Gene No.	110828	Strand	+
Start	534	End	743
Name	OJ990816_08.0419.C21.o1.gs	Method	GENSCAN
Start	534	End	743
GI	none	Score	.93
Exons	534..563, 613..743		

Seq. No.	52523	Seq. ID	OJ990816_08.0419.C24
Gene No.	110829	Strand	-
Start	1	End	1371
Name	OJ990816_08.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1371
GI	7340860	Score	54
Exons	1..32, 1044..1193, 1348..1371		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52524	Seq. ID	OJ990816_08.0419.C25
Gene No.	110830	Strand	+
Start	1359	End	4397
Name	OJ990816_08.0419.C25.o1.np	Method	AAT/NAP
Start	1359	End	4397
GI	6006367	Score	67
Exons	1359..1398, 2873..3096, 4340..4397		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	52524	Seq. ID	OJ990816_08.0419.C25
Gene No.	110830	Strand	+
Start	1359	End	4397
Name	OJ990816_08.0419.C25.o2.gs	Method	GENSCAN
Start	3198	End	4336
GI	none	Score	.48
Exons	3198..3357, 3573..3743, 3790..3874, 4076..4336		

Seq. No.	52525	Seq. ID	OJ990816_08.0419.C27

Gene No.	110831	Strand	+
Start	50	End	213
Name	OJ990816_08.0419.C27.o1.gs	Method	GENSCAN
Start	50	End	204
GI	none	Score	.92
Exons	50..204		

Seq. No.	52525	Seq. ID	OJ990816_08.0419.C27
Gene No.	110831	Strand	+
Start	50	End	213
Name	OJ990816_08.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	50	End	213
GI	none	Score	183
Exons	50..205, 51..206, 112..213, 132..212		

Seq. No.	52526	Seq. ID	OJ990816_08.0419.C28
Gene No.	110832	Strand	-
Start	878	End	1178
Name	OJ990816_08.0419.C28.o1.gs	Method	GENSCAN
Start	878	End	1178
GI	none	Score	.76
Exons	878..1178		

Seq. No.	52527	Seq. ID	OJ990816_08.0419.C29
Gene No.	110833	Strand	+
Start	1	End	594
Name	OJ990816_08.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	594
GI	7488431	Score	125
Exons	1..121, 272..594		
GI Descrip.	zinc finger protein F15B8.140 - Arabidopsis thaliana gi\|4678280\|emb\|CAB41188.1\| (AL049660) zinc finger-like protein [Arabidopsis thaliana]		

Seq. No.	52527	Seq. ID	OJ990816_08.0419.C29
Gene No.	110833	Strand	+
Start	1	End	594
Name	OJ990816_08.0419.C29.o1.gs	Method	GENSCAN
Start	58	End	594
GI	none	Score	.81
Exons	58..594		

Seq. No.	52528	Seq. ID	OJ990816_08.0419.C30
Gene No.	110834	Strand	+
Start	1	End	436
Name	OJ990816_08.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	436
GI	7488431	Score	481
Exons	1..436		
GI Descrip.	zinc finger protein F15B8.140 - Arabidopsis thaliana gi\|4678280\|emb\|CAB41188.1\| (AL049660) zinc finger-like protein [Arabidopsis thaliana]		

Seq. No.	52528	Seq. ID	OJ990816_08.0419.C30
Gene No.	110834	Strand	+
Start	1	End	436
Name	OJ990816_08.0419.C30.o1.gs	Method	GENSCAN

Start	58	End	417
GI	none	Score	.8
Exons	58..417		

Seq. No.	52528	Seq. ID	OJ990816_08.0419.C30
Gene No.	110835	Strand	-
Start	1268	End	1469
Name	OJ990816_08.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	15	End	132
GI	none	Score	188
Exons	15..131, 16..132		

Seq. No.	52528	Seq. ID	OJ990816_08.0419.C30
Gene No.	110835	Strand	-
Start	1268	End	1469
Name	OJ990816_08.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	16	End	309
GI	none	Score	438
Exons	16..309, 21..140, 216..251		

Seq. No.	52528	Seq. ID	OJ990816_08.0419.C30
Gene No.	110835	Strand	-
Start	1268	End	1469
Name	OJ990816_08.0419.C30.o2.gs	Method	GENSCAN
Start	1268	End	1469
GI	none	Score	.71
Exons	1268..1469		

Seq. No.	52529	Seq. ID	OJ990816_08.0419.C32
Gene No.	110836	Strand	+
Start	127	End	706
Name	OJ990816_08.0419.C32.o1.np	Method	AAT/NAP
Start	127	End	706
GI	6166555	Score	158
Exons	127..227, 315..403, 490..540, 676..706		
GI Descrip.	MLO PROTEIN HOMOLOG 1 (ATMLO-H1) gi\|2765817\|emb\|CAB08605\| (Z95352) AtMlo-h1 [Arabidopsis thaliana] gi\|3892049\|gb\|AAC78258.1\|AAC78258 (AC002330) AtMlo-h1 [Arabidopsis thaliana]		

Seq. No.	52529	Seq. ID	OJ990816_08.0419.C32
Gene No.	110836	Strand	+
Start	127	End	706
Name	OJ990816_08.0419.C32.o1.gs	Method	GENSCAN
Start	153	End	403
GI	none	Score	.79
Exons	153..227, 315..403		

Seq. No.	52530	Seq. ID	OJ990816_08.0419.C34
Gene No.	110837	Strand	-
Start	1	End	76
Name	OJ990816_08.0419.C34.o1.gp	Method	AAT/GAP
Start	1	End	76
GI	5005058	Score	135
Exons	1..76		

Seq. No.	52530	Seq. ID	OJ990816_08.0419.C34

Gene No.	110838	Strand	-
Start	1186	End	1595
Name	OJ990816_08.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	1104	End	1569
GI	none	Score	376
Exons	1104..1466, 1177..1467, 1177..1473, 1178..1486, 1430..1567, 1448..1567, 1468..1569, 1470..1568		

Seq. No.	52530	Seq. ID	OJ990816_08.0419.C34
Gene No.	110838	Strand	-
Start	1186	End	1595
Name	OJ990816_08.0419.C34.o1.np	Method	AAT/NAP
Start	1186	End	1595
GI	5478530	Score	142
Exons	1186..1595		
GI Descrip.	(AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		

Seq. No.	52530	Seq. ID	OJ990816_08.0419.C34
Gene No.	110838	Strand	-
Start	1186	End	1595
Name	OJ990816_08.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	1188	End	1484
GI	none	Score	224
Exons	1188..1484, 1189..1479		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110839	Strand	+
Start	2315	End	2532
Name	OJ990816_08.0419.C35.o1.gp	Method	AAT/GAP
Start	2315	End	2532
GI	none	Score	338
Exons	2315..2532		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110840	Strand	-
Start	146	End	1810
Name	OJ990816_08.0419.C35.o1.gs	Method	GENSCAN
Start	146	End	1781
GI	none	Score	.93
Exons	146..334, 1493..1781		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110840	Strand	-
Start	146	End	1810
Name	OJ990816_08.0419.C35.o1.np	Method	AAT/NAP
Start	1408	End	1810
GI	7489243	Score	185
Exons	1408..1810		
GI Descrip.	hypothetical protein (orf in Lhca3.St.1 promoter) - potato		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o2.ts	Method	TBLASTX:Soybean
Start	141	End	480
GI	none	Score	66
Exons	141..284, 162..293, 399..458, 403..480		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o2.gp	Method	AAT/GAP
Start	2312	End	4187
GI	606_7.R1084	Score	1626
Exons	2312..3182, 3731..3792, 3890..4087, 4128..4187		
GI Descrip.	'309673 1.0e-15 (L19651) light harvesting protein [Pisum sativum]'		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	2549	End	3950
GI	none	Score	98
Exons	2549..2749, 2552..2632, 2568..2690, 2789..2992, 2820..2993, 2993..3181, 2997..3122, 3011..3178, 3730..3795, 3731..3793, 3891..3950		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	2549	End	3965
GI	none	Score	71
Exons	2549..2749, 2567..2644, 2568..2690, 2789..3181, 2814..3122, 2969..3187, 3730..3795, 3731..3793, 3891..3965		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	2564	End	4021
GI	none	Score	138
Exons	2564..2749, 2565..2690, 2789..3181, 2814..3119, 2969..3187, 3725..3793, 3730..3795, 3731..3793, 3890..3934, 3891..3947, 3945..4019, 3965..4021		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	2564	End	2827
GI	none	Score	142
Exons	2564..2827, 2565..2690		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o2.np	Method	AAT/NAP
Start	2567	End	4033
GI	4585882	Score	1016
Exons	2567..3182, 3731..3792, 3890..4033		
GI Descrip.	(AC005850) PSI type III chlorophyll a/b-binding protein [Arabidopsis thaliana]		

Seq. No.	52531	Seq. ID	OJ990816_08.0419.C35
Gene No.	110841	Strand	-
Start	2312	End	4187
Name	OJ990816_08.0419.C35.o2.tw	Method	TBLASTX:Wheat
Start	3096	End	4022
GI	none	Score	82
Exons	3096..3161, 3097..3162, 3098..3187, 3098..3181, 3725..3781, 3730..3795, 3731..3793, 3883..3999, 3885..4022, 3892..4002		

Seq. No.	52532	Seq. ID	OJ990816_08.0419.C36
Gene No.	110842	Strand	-
Start	1	End	860
Name	OJ990816_08.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	860
GI	4835781	Score	136
Exons	1..21, 588..860		
GI Descrip.	(AC007296) F25C20.9 [Arabidopsis thaliana]		

Seq. No.	52533	Seq. ID	OJ990816_08.0419.C37
Gene No.	110843	Strand	-
Start	394	End	843
Name	OJ990816_08.0419.C37.o1.gs	Method	GENSCAN
Start	394	End	843
GI	none	Score	.63
Exons	394..843		

Seq. No.	52534	Seq. ID	OJ990816_08.0419.C42
Gene No.	110844	Strand	+
Start	1	End	770
Name	OJ990816_08.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	770
GI	7485140	Score	169
Exons	1..29, 337..435, 576..770		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi\|2244785\|emb\|CAB10208.1\| (Z97335) hypothetical protein [Arabidopsis thaliana] gi\|7268134\|emb\|CAB78471.1\| (AL161538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52534	Seq. ID	OJ990816_08.0419.C42
Gene No.	110845	Strand	-
Start	575	End	770
Name	OJ990816_08.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	320	End	719
GI	none	Score	104
Exons	320..433, 334..459, 334..432, 335..451, 568..660, 575..688, 576..719		

Seq. No.	52534	Seq. ID	OJ990816_08.0419.C42
Gene No.	110845	Strand	-
Start	575	End	770
Name	OJ990816_08.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	340	End	686
GI	none	Score	117
Exons	340..459, 575..679, 576..686		

Seq. No.	52534	Seq. ID	OJ990816_08.0419.C42

Gene No.	110845	Strand	-
Start	575	End	770
Name	OJ990816_08.0419.C42.o1.ts	Method	TBLASTX:Soybean
Start	340	End	691
GI	none	Score	115
Exons	340..459, 575..691, 576..683		

Seq. No.	52534	Seq. ID	OJ990816_08.0419.C42
Gene No.	110845	Strand	-
Start	575	End	770
Name	OJ990816_08.0419.C42.o1.gp	Method	AAT/GAP
Start	575	End	770
GI	LIB3432-013-P1-K1-D1	Score	296
Exons	575..770		
GI Descrip.	'2245074/emb\|CAB10496.1\| 2.0e-19 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52535	Seq. ID	OJ990816_08.0419.C45
Gene No.	110846	Strand	
Start	602	End	885
Name	OJ990816_08.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	602	End	885
GI	none	Score	58
Exons	602..652, 632..673, 633..680, 633..692, 776..883, 777..884, 798..884, 826..885		

Seq. No.	52536	Seq. ID	OJ990816_08.0419.C46
Gene No.	110847	Strand	-
Start	109	End	612
Name	OJ990816_08.0419.C46.o1.gs	Method	GENSCAN
Start	109	End	612
GI	none	Score	1
Exons	109..612		

Seq. No.	52536	Seq. ID	OJ990816_08.0419.C46
Gene No.	110848	Strand	-
Start	1624	End	4765
Name	OJ990816_08.0419.C46.o2.gs	Method	GENSCAN
Start	1624	End	3443
GI	none	Score	.57
Exons	1624..1754, 1765..1860, 2371..2488, 3294..3443		

Seq. No.	52536	Seq. ID	OJ990816_08.0419.C46
Gene No.	110848	Strand	-
Start	1624	End	4765
Name	OJ990816_08.0419.C46.o1.np	Method	AAT/NAP
Start	3052	End	4765
GI	6721516	Score	470
Exons	3052..3223, 3775..4109, 4524..4765		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	52536	Seq. ID	OJ990816_08.0419.C46
Gene No.	110849	Strand	
Start	5055	End	5531
Name	OJ990816_08.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	5055	End	5531
GI	none	Score	83

Exons	5055..5177, 5241..5531		
Seq. No.	52536	Seq. ID	OJ990816_08.0419.C46
Gene No.	110849	Strand	
Start	5055	End	5531
Name	OJ990816_08.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	5088	End	5477
GI	none	Score	89
Exons	5088..5222, 5235..5477		
Seq. No.	52537	Seq. ID	OJ990816_08.0419.C47
Gene No.	110850	Strand	+
Start	1	End	535
Name	OJ990816_08.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	529
GI	4587598	Score	303
Exons	1..136, 220..291, 371..529		
GI Descrip.	(AC006951) 3-oxoacyl carrier protein synthase [Arabidopsis thaliana]		
Seq. No.	52537	Seq. ID	OJ990816_08.0419.C47
Gene No.	110850	Strand	+
Start	1	End	535
Name	OJ990816_08.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	50	End	457
GI	none	Score	126
Exons	50..136, 52..135, 53..136, 54..137, 55..138, 217..291, 217..291, 370..456, 371..457		
Seq. No.	52537	Seq. ID	OJ990816_08.0419.C47
Gene No.	110850	Strand	+
Start	1	End	535
Name	OJ990816_08.0419.C47.o1.gs	Method	GENSCAN
Start	54	End	535
GI	none	Score	.51
Exons	54..136, 371..535		
Seq. No.	52538	Seq. ID	OJ990816_08.0419.C48
Gene No.	110851	Strand	+
Start	1871	End	2171
Name	OJ990816_08.0419.C48.o1.gp	Method	AAT/GAP
Start	1871	End	2171
GI	22743_1.R1084	Score	552
Exons	1871..2171		
GI Descrip.	'3157928 6.0e-69 (AC002131) Similar to fumarylacetoacetate hydrolase, gb_L41670 from Emericella nidulans. [Arabidopsis thaliana]'		
Seq. No.	52538	Seq. ID	OJ990816_08.0419.C48
Gene No.	110851	Strand	+
Start	1871	End	2171
Name	OJ990816_08.0419.C48.o1.np	Method	AAT/NAP
Start	1956	End	2165
GI	3157928	Score	158
Exons	1956..2165		
GI Descrip.	(AC002131) Similar to fumarylacetoacetate hydrolase, gb\|L41670 from Emericella nidulans. [Arabidopsis thaliana]		

Seq. No.	52538	Seq. ID	OJ990816_08.0419.C48
Gene No.	110852	Strand	-
Start	1820	End	2173
Name	OJ990816_08.0419.C48.o1.gs	Method	GENSCAN
Start	1820	End	2083
GI	none	Score	.98
Exons	1820..2083		

Seq. No.	52538	Seq. ID	OJ990816_08.0419.C48
Gene No.	110852	Strand	-
Start	1820	End	2173
Name	OJ990816_08.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	1908	End	2173
GI	none	Score	129
Exons	1908..2033, 1937..2062, 2033..2173, 2073..2171		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	238	End	1120
GI	none	Score	100
Exons	238..306, 239..307, 395..520, 396..521, 406..537, 406..522, 611..685, 613..687, 613..687, 614..709, 1030..1107, 1031..1120, 1037..1111		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	239	End	1120
GI	none	Score	73
Exons	239..316, 395..523, 396..521, 405..539, 614..709, 622..687, 1030..1113, 1031..1120		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.np	Method	AAT/NAP
Start	245	End	1196
GI	3157928	Score	321
Exons	245..307, 396..520, 613..687, 1033..1196		
GI Descrip.	(AC002131) Similar to fumarylacetoacetate hydrolase, gb\|L41670 from Emericella nidulans. [Arabidopsis thaliana]		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.gp	Method	AAT/GAP
Start	246	End	1108
GI	22743_1.R1084	Score	558
Exons	246..307, 396..520, 613..687, 1033..1108		
GI Descrip.	'3157928 6.0e-69 (AC002131) Similar to fumarylacetoacetate hydrolase, gb_L41670 from Emericella nidulans. [Arabidopsis thaliana]'		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.gs	Method	GENSCAN
Start	249	End	1108
GI	none	Score	.97
Exons	249..307, 396..520, 613..687, 1033..1108		

Seq. No.	52539	Seq. ID	OJ990816_08.0419.C49
Gene No.	110853	Strand	+
Start	245	End	1196
Name	OJ990816_08.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	287	End	1120
GI	none	Score	34
Exons	287..307, 395..520, 396..521, 404..523, 611..685, 612..686, 613..687, 614..709, 1031..1120, 1031..1111		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110854	Strand	+
Start	150	End	321
Name	OJ990816_08.0419.C51.o1.gp	Method	AAT/GAP
Start	150	End	215
GI	none	Score	83
Exons	150..215		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110854	Strand	+
Start	150	End	321
Name	OJ990816_08.0419.C51.o1.gs	Method	GENSCAN
Start	150	End	321
GI	none	Score	.89
Exons	150..321		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110855	Strand	-
Start	1273	End	3242
Name	OJ990816_08.0419.C51.o2.gs	Method	GENSCAN
Start	1273	End	3242
GI	none	Score	.81
Exons	1273..1339, 2104..2230, 2528..2627, 3138..3242		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110855	Strand	-
Start	1273	End	3242
Name	OJ990816_08.0419.C51.o1.np	Method	AAT/NAP
Start	1763	End	3134
GI	485459	Score	111
Exons	1763..1921, 2104..2184, 2542..2601, 3071..3134		
GI Descrip.	hypothetical protein 2 (phaC1 5' region) - Pseudomonas aeruginosa gi\|45390\|emb\|CAA47150.1\| (X66592) ORF2 [Pseudomonas aeruginosa]		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110856	Strand	-
Start	3251	End	6774
Name	OJ990816_08.0419.C51.o1.tc	Method	TBLASTX:Cress
Start	1789	End	2630

GI	none	Score	91
Exons	1789..1923, 1789..1923, 1790..1924, 2083..2169, 2103..2174, 2514..2582, 2514..2630, 2515..2628		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110856	Strand	-
Start	3251	End	6774
Name	OJ990816_08.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	1801	End	3237
GI	none	Score	158
Exons	1801..1923, 1802..1921, 1809..1922, 2083..2169, 2084..2170, 2103..2171, 2103..2174, 2107..2175, 2514..2582, 2515..2580, 2520..2585, 3108..3191, 3109..3192, 3187..3237		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110856	Strand	-
Start	3251	End	6774
Name	OJ990816_08.0419.C51.o2.np	Method	AAT/NAP
Start	3251	End	6774
GI	114403	Score	99
Exons	3251..3270, 4535..4664, 6748..6774		
GI Descrip.	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL gi\|67818\|pir\|\|PWRPA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rape mitochondrion gi\|19554\|emb\|CAA39483.1\| (X56008) F1-ATPase alpha subunit (ATPA) [Brassica napus]		

Seq. No.	52540	Seq. ID	OJ990816_08.0419.C51
Gene No.	110856	Strand	-
Start	3251	End	6774
Name	OJ990816_08.0419.C51.o3.gs	Method	GENSCAN
Start	4491	End	6556
GI	none	Score	.86
Exons	4491..4784, 5407..5577, 5746..5885, 6448..6556		

Seq. No.	52541	Seq. ID	OJ990816_08.0419.C52
Gene No.	110857	Strand	+
Start	57	End	1365
Name	OJ990816_08.0419.C52.o1.ts	Method	TBLASTX:Soybean
Start	54	End	673
GI	none	Score	152
Exons	54..158, 56..160, 396..524, 396..524, 397..525, 561..668, 598..672, 599..673		

Seq. No.	52541	Seq. ID	OJ990816_08.0419.C52
Gene No.	110857	Strand	+
Start	57	End	1365
Name	OJ990816_08.0419.C52.o1.np	Method	AAT/NAP
Start	57	End	1365
GI	7485140	Score	461
Exons	57..160, 399..525, 599..693, 984..1111, 1312..1365		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi\|2244785\|emb\|CAB10208.1\| (Z97335) hypothetical protein [Arabidopsis thaliana] gi\|7268134\|emb\|CAB78471.1\| (AL161538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52541	Seq. ID	OJ990816_08.0419.C52
Gene No.	110857	Strand	+

Start	57	End	1365
Name	OJ990816_08.0419.C52.o1.gs	Method	GENSCAN
Start	376	End	1107
GI	none	Score	.75
Exons	376..504, 599..693, 984..1107		

Seq. No.	52542	Seq. ID	OJ990816_08.0419.C55
Gene No.	110858	Strand	-
Start	285	End	675
Name	OJ990816_08.0419.C55.o1.gs	Method	GENSCAN
Start	285	End	675
GI	none	Score	.65
Exons	285..340, 612..675		

Seq. No.	52543	Seq. ID	OJ991107_44.0421.C1
Gene No.	110859	Strand	+
Start	136	End	630
Name	OJ991107_44.0421.C1.o1.gs	Method	GENSCAN
Start	136	End	630
GI	none	Score	.51
Exons	136..630		

Seq. No.	52543	Seq. ID	OJ991107_44.0421.C1
Gene No.	110860	Strand	-
Start	1	End	785
Name	OJ991107_44.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	785
GI	4680184	Score	243
Exons	1..785		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52544	Seq. ID	OJ991107_44.0421.C2
Gene No.	110861	Strand	+
Start	136	End	270
Name	OJ991107_44.0421.C2.o1.gs	Method	GENSCAN
Start	136	End	270
GI	none	Score	.66
Exons	136..270		

Seq. No.	52544	Seq. ID	OJ991107_44.0421.C2
Gene No.	110862	Strand	-
Start	43	End	1699
Name	OJ991107_44.0421.C2.o1.np	Method	AAT/NAP
Start	43	End	1699
GI	6907088	Score	388
Exons	43..253, 967..1386, 1562..1699		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52544	Seq. ID	OJ991107_44.0421.C2
Gene No.	110863	Strand	-
Start	2297	End	3881
Name	OJ991107_44.0421.C2.o2.gs	Method	GENSCAN
Start	2297	End	3881
GI	none	Score	.66
Exons	2297..2385, 3483..3590, 3665..3881		

Seq. No.	52544	Seq. ID	OJ991107_44.0421.C2

Gene No.	110864	Strand	-
Start	5403	End	5623
Name	OJ991107_44.0421.C2.o2.np	Method	AAT/NAP
Start	5403	End	5623
GI	3738331	Score	74
Exons	5403..5623		
GI Descrip.	(AC005170) unknown protein [Arabidopsis thaliana]		

Seq. No.	52545	Seq. ID	OJ991107_44.0421.C3
Gene No.	110865	Strand	+
Start	303	End	4125
Name	OJ991107_44.0421.C3.o1.gs	Method	GENSCAN
Start	303	End	4125
GI	none	Score	.57
Exons	303..436, 504..776, 998..1197, 2707..2892, 3115..3306, 3717..3834, 4100..4125		

Seq. No.	52545	Seq. ID	OJ991107_44.0421.C3
Gene No.	110866	Strand	-
Start	5062	End	7112
Name	OJ991107_44.0421.C3.o1.np	Method	AAT/NAP
Start	4931	End	7011
GI	7484819	Score	222
Exons	4931..4985, 5075..5186, 5603..5766, 6817..7011		
GI Descrip.	auxin-induced protein IAA20 - Arabidopsis thaliana gi\|3522954\|gb\|AAC34236.1\| (AC004411) auxin-induced protein (IAA20) [Arabidopsis thaliana]		

Seq. No.	52545	Seq. ID	OJ991107_44.0421.C3
Gene No.	110866	Strand	-
Start	5062	End	7112
Name	OJ991107_44.0421.C3.o2.gs	Method	GENSCAN
Start	5062	End	7029
GI	none	Score	.86
Exons	5062..5186, 5588..5814, 6812..7029		

Seq. No.	52545	Seq. ID	OJ991107_44.0421.C3
Gene No.	110866	Strand	-
Start	5062	End	7112
Name	OJ991107_44.0421.C3.o1.gp	Method	AAT/GAP
Start	6796	End	7112
GI	none	Score	521
Exons	6796..7112		

Seq. No.	52546	Seq. ID	OJ991107_44.0421.C4
Gene No.	110867	Strand	+
Start	4564	End	5858
Name	OJ991107_44.0421.C4.o2.gs	Method	GENSCAN
Start	4564	End	5858
GI	none	Score	.81
Exons	4564..4754, 5283..5465, 5529..5663, 5825..5858		

Seq. No.	52546	Seq. ID	OJ991107_44.0421.C4
Gene No.	110868	Strand	-
Start	1316	End	1407
Name	OJ991107_44.0421.C4.o1.gp	Method	AAT/GAP
Start	1316	End	1407

GI	5867_1.R1084	Score	130
Exons	1316..1407		
GI Descrip.	'464986/sp\|P35132\|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110869	Strand	+
Start	4342	End	8711
Name	OJ991107_44.0421.C5.o2.gs	Method	GENSCAN
Start	4342	End	8576
GI	none	Score	.82
Exons	4342..4367, 4708..4735, 5254..5837, 6365..6520, 6629..7715, 7806..7898, 8060..8125, 8195..8278, 8372..8576		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110869	Strand	+
Start	4342	End	8711
Name	OJ991107_44.0421.C5.o1.np	Method	AAT/NAP
Start	4436	End	8711
GI	3482928	Score	203
Exons	4436..4481, 5138..5211, 7348..7428, 7850..7898, 8060..8125, 8213..8278, 8372..8521, 8654..8711		
GI Descrip.	(AC003970) Unknown protein [Arabidopsis thaliana] gi\|3929586 (AF100166) phytochrome interacting factor 3 [Arabidopsis thaliana]		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110870	Strand	-
Start	2699	End	2923
Name	OJ991107_44.0421.C5.o1.gs	Method	GENSCAN
Start	2699	End	2923
GI	none	Score	.51
Exons	2699..2829, 2899..2923		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110871	Strand	
Start	7674	End	8566
Name	OJ991107_44.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	7674	End	8402
GI	none	Score	55
Exons	7674..7721, 7691..7723, 7767..7898, 7784..7903, 7784..7906, 8050..8124, 8051..8128, 8060..8134, 8210..8281, 8210..8281, 8372..8401, 8373..8402		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110871	Strand	
Start	7674	End	8566
Name	OJ991107_44.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	8050	End	8500
GI	none	Score	121
Exons	8050..8127, 8051..8128, 8069..8137, 8201..8311, 8210..8281, 8369..8416, 8444..8500		

Seq. No.	52547	Seq. ID	OJ991107_44.0421.C5
Gene No.	110871	Strand	
Start	7674	End	8566
Name	OJ991107_44.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	8050	End	8566
GI	none	Score	108
Exons	8050..8124, 8051..8125, 8060..8137, 8216..8281, 8359..8391, 8456..8542, 8531..8566		

Seq. No.	52548	Seq. ID	OJ991107_44.0421.C6
Gene No.	110872	Strand	+
Start	301	End	3316
Name	OJ991107_44.0421.C6.o1.gs	Method	GENSCAN
Start	301	End	3316
GI	none	Score	.47
Exons	301..409, 716..820, 1928..2030, 2395..2525, 2842..2877, 3206..3316		

Seq. No.	52548	Seq. ID	OJ991107_44.0421.C6
Gene No.	110873	Strand	-
Start	2817	End	3373
Name	OJ991107_44.0421.C6.o1.gp	Method	AAT/GAP
Start	2817	End	3373
GI	21474_1.R1084	Score	242
Exons	2817..2838, 3226..3373		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52548	Seq. ID	OJ991107_44.0421.C6
Gene No.	110874	Strand	-
Start	3585	End	5793
Name	OJ991107_44.0421.C6.o2.gs	Method	GENSCAN
Start	3585	End	5793
GI	none	Score	.83
Exons	3585..3770, 3850..3948, 4043..4115, 4200..4310, 4407..4580, 4690..4966, 5030..5327, 5378..5520, 5646..5793		

Seq. No.	52548	Seq. ID	OJ991107_44.0421.C6
Gene No.	110874	Strand	-
Start	3585	End	5793
Name	OJ991107_44.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	4241	End	4763
GI	none	Score	68
Exons	4241..4312, 4412..4594, 4419..4544, 4683..4763		

Seq. No.	52549	Seq. ID	OJ991107_44.0421.C7
Gene No.	110875	Strand	+
Start	2221	End	2469
Name	OJ991107_44.0421.C7.o2.np	Method	AAT/NAP
Start	2221	End	2469
GI	862343	Score	182
Exons	2221..2469		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi\|1092097\|prf\|\|2022314A granule cell marker protein [Mus musculus] gi\|1092098\|prf\|\|2022315A granule cell marker protein [Mus musculus]		

Seq. No.	52549	Seq. ID	OJ991107_44.0421.C7
Gene No.	110876	Strand	-
Start	1	End	1390
Name	OJ991107_44.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	1390
GI	4680204	Score	736
Exons	1..1390		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52549	Seq. ID	OJ991107_44.0421.C7
Gene No.	110876	Strand	-
Start	1	End	1390
Name	OJ991107_44.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	345	End	747
GI	none	Score	58
Exons	345..515, 510..554, 555..644, 637..747	560..745, 596..745, 607..747,	

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.gp	Method	AAT/GAP
Start	69	End	4162
GI	342_1.R1084	Score	6757
Exons	69..584, 694..798, 917..4162		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o2.gp	Method	AAT/GAP
Start	69	End	4166
GI	342_1.R1084	Score	6761
Exons	69..584, 694..798, 917..4166		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o4.gp	Method	AAT/GAP
Start	238	End	4329
GI	342_1.R1084	Score	6659
Exons	238..584, 694..798, 917..4329		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o5.gp	Method	AAT/GAP
Start	241	End	4329
GI	342_1.R1084	Score	6653
Exons	241..584, 694..798, 917..4329		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza		

sativa]'

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o3.gp	Method	AAT/GAP
Start	247	End	4329
GI	342_1.R1084	Score	6641
Exons	247..584, 694..798, 917..4329		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.gs	Method	GENSCAN
Start	1001	End	4333
GI	none	Score	.91
Exons	1001..1073, 1146..3217, 3521..4333		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.np	Method	AAT/NAP
Start	1022	End	4749
GI	4680203	Score	3302
Exons	1022..1999, 2276..2506, 2660..4333, 4693..4749		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	1076	End	2393
GI	none	Score	131
Exons	1076..1168, 1157..1237, 1250..1390, 1251..1391, 1338..1433, 1370..1429, 1436..1480, 1441..1476, 1475..2392, 1482..2393		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	1657	End	2109
GI	none	Score	188
Exons	1657..1908, 1658..2095, 1658..2101, 1662..2105, 1668..2105, 1927..2109		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	2036	End	2350
GI	none	Score	150
Exons	2036..2350, 2064..2339		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-

Start	69	End	4749
Name	OJ991107_44.0421.C8.o3.tw	Method	TBLASTX:Wheat
Start	2394	End	2804
GI	none	Score	76
Exons	2394..2480, 2396..2485, 2396..2479, 2512..2724, 2513..2731, 2553..2735, 2741..2803, 2754..2804		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	2837	End	3079
GI	none	Score	216
Exons	2837..3079		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	2909	End	3366
GI	none	Score	52
Exons	2909..3103, 3113..3232, 3113..3238, 3232..3354, 3238..3366		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o2.tw	Method	TBLASTX:Wheat
Start	2943	End	3411
GI	none	Score	173
Exons	2943..3149, 2948..3151, 2948..3172, 3152..3238, 3153..3239, 3253..3357, 3257..3346, 3358..3411, 3359..3403		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	3232	End	3548
GI	none	Score	69
Exons	3232..3420, 3260..3355, 3401..3541, 3429..3548		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	3280	End	3710
GI	none	Score	64
Exons	3280..3429, 3293..3421, 3298..3429, 3440..3577, 3441..3545, 3572..3634, 3627..3710, 3635..3709		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o4.tw	Method	TBLASTX:Wheat
Start	3631	End	3982
GI	none	Score	181
Exons	3631..3882, 3641..3892, 3642..3884, 3667..3891, 3875..3982		

Seq. No.	52550	Seq. ID	OJ991107_44.0421.C8
Gene No.	110877	Strand	-
Start	69	End	4749
Name	OJ991107_44.0421.C8.o6.gp	Method	AAT/GAP
Start	3878	End	4381
GI	2310235	Score	245
Exons	3878..3903, 4194..4381		
GI Descrip.	5852182/emb\|CAB55420.1\| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	52551	Seq. ID	OJ991107_44.0421.C10
Gene No.	110878	Strand	-
Start	1468	End	2270
Name	OJ991107_44.0421.C10.o1.np	Method	AAT/NAP
Start	1468	End	2270
GI	7242910	Score	81
Exons	1468..1550, 1629..1769, 2231..2270		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110879	Strand	+
Start	2229	End	5473
Name	OJ991107_44.0421.C11.o1.gs	Method	GENSCAN
Start	2229	End	5473
GI	none	Score	.86
Exons	2229..2603, 2693..3044, 3119..3266, 3341..3421, 3846..4017, 4315..4353, 4579..4738, 4871..4974, 5174..5473		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110879	Strand	+
Start	2229	End	5473
Name	OJ991107_44.0421.C11.o1.np	Method	AAT/NAP
Start	2238	End	5470
GI	6715441	Score	2178
Exons	2238..2603, 2693..2878, 2960..3044, 3119..3266, 3341..3421, 3846..4017, 4579..4738, 4871..4974, 5174..5470		
GI Descrip.	(AF218052) protoporphyrinogen IX oxidase [Zea mays]		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110880	Strand	+
Start	5443	End	5620
Name	OJ991107_44.0421.C11.o1.gp	Method	AAT/GAP
Start	5443	End	5620
GI	2796535	Score	283
Exons	5443..5620		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110881	Strand	+
Start	9020	End	9895
Name	OJ991107_44.0421.C11.o2.gs	Method	GENSCAN
Start	9020	End	9895
GI	none	Score	.97
Exons	9020..9082, 9686..9895		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110881	Strand	+
Start	9020	End	9895

Name	OJ991107_44.0421.C11.o2.gp	Method	AAT/GAP
Start	9391	End	9814
GI	LIB3477-003-P1-K1-E9	Score	76
Exons	9391..9465, 9786..9814		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110882	Strand	+
Start	12411	End	12498
Name	OJ991107_44.0421.C11.o2.np	Method	AAT/NAP
Start	12411	End	12498
GI	6721547	Score	90
Exons	12411..12498		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	2397	End	5473
GI	none	Score	109
Exons	2397..2462, 2399..2497, 2472..2537, 2480..2521, 2529..2606, 2692..2943, 2693..2878, 2959..3051, 2963..3058, 2964..3059, 2972..3052, 3106..3270, 3111..3251, 3112..3267, 3342..3422, 3342..3401, 3843..4019, 3844..4071, 4542..4739, 4584..4658, 4585..4761, 4588..4743, 4867..4974, 4869..4973, 4879..4974, 5171..5473, 5171..5329, 5215..5331		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	2397	End	3322
GI	none	Score	348
Exons	2397..2606, 2399..2584, 2563..2604, 2692..2898, 2693..2878, 2958..2999, 2959..3051, 2972..3052, 2975..3058, 3106..3288, 3111..3275, 3113..3295, 3119..3322		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o3.ts	Method	TBLASTX:Soybean
Start	2397	End	2606
GI	none	Score	163
Exons	2397..2537, 2399..2521, 2538..2606, 2563..2601		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	2708	End	3255
GI	none	Score	233
Exons	2708..2881, 2710..2880, 2929..3051, 2943..3053, 2972..3052, 3108..3173, 3111..3236, 3112..3255, 3113..3226, 3124..3234		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	3332	End	5480
GI	none	Score	116
Exons	3332..3421, 3339..3419, 3843..4016, 3847..4017, 3847..4017, 3908..4018, 4546..4740, 4560..4739, 4578..4742, 4579..4761, 4685..4753, 4867..4974, 4868..4972, 4869..4973, 4870..4974, 5171..5479, 5171..5443, 5337..5480		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	3341	End	5500
GI	none	Score	119
Exons	3341..3424, 3342..3422, 3843..4016, 3844..4023, 4581..4661, 4584..4739, 4585..4761, 4588..4743, 4707..4763, 4867..4974, 4869..4970, 5171..5500, 5192..5230, 5215..5325, 5234..5281, 5270..5425		

Seq. No.	52552	Seq. ID	OJ991107_44.0421.C11
Gene No.	110883	Strand	+
Start	13603	End	14261
Name	OJ991107_44.0421.C11.o3.np	Method	AAT/NAP
Start	13603	End	14261
GI	7340909	Score	189
Exons	13603..13885, 14082..14261		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52553	Seq. ID	OJ991107_44.0421.C12
Gene No.	110884	Strand	-
Start	1	End	1419
Name	OJ991107_44.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	1419
GI	7340909	Score	108
Exons	1..123, 1368..1419		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52553	Seq. ID	OJ991107_44.0421.C12
Gene No.	110885	Strand	-
Start	1420	End	6787
Name	OJ991107_44.0421.C12.o1.gs	Method	GENSCAN
Start	1420	End	6787
GI	none	Score	.65
Exons	1420..1452, 2354..2478, 3458..3507, 3848..4042, 5598..5649, 5764..5885, 6717..6787		

Seq. No.	52554	Seq. ID	OJ991107_44.0421.C15
Gene No.	110886	Strand	+
Start	695	End	863
Name	OJ991107_44.0421.C15.o1.gs	Method	GENSCAN
Start	695	End	863
GI	none	Score	.84
Exons	695..863		

Seq. No.	52554	Seq. ID	OJ991107_44.0421.C15
Gene No.	110887	Strand	+
Start	764	End	960
Name	OJ991107_44.0421.C15.o1.np	Method	AAT/NAP
Start	764	End	960
GI	7340909	Score	126
Exons	764..960		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52555	Seq. ID	OJ991107_44.0421.C16
Gene No.	110888	Strand	+
Start	888	End	949
Name	OJ991107_44.0421.C16.o1.gs	Method	GENSCAN
Start	888	End	949
GI	none	Score	.96
Exons	888..949		

Seq. No.	52555	Seq. ID	OJ991107_44.0421.C16
Gene No.	110889	Strand	+
Start	2433	End	2801
Name	OJ991107_44.0421.C16.o2.gs	Method	GENSCAN
Start	2433	End	2801
GI	none	Score	.8
Exons	2433..2614, 2685..2801		

Seq. No.	52555	Seq. ID	OJ991107_44.0421.C16
Gene No.	110890	Strand	-
Start	1	End	255
Name	OJ991107_44.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	255
GI	7340909	Score	163
Exons	1..255		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52556	Seq. ID	OJ991107_44.0421.C17
Gene No.	110891	Strand	+
Start	86	End	4404
Name	OJ991107_44.0421.C17.o1.gs	Method	GENSCAN
Start	86	End	4171
GI	none	Score	.61
Exons	86..307, 935..1179, 1341..1586, 1677..1859, 1946..2076, 2521..2689, 3528..3627, 3975..4171		

Seq. No.	52556	Seq. ID	OJ991107_44.0421.C17
Gene No.	110891	Strand	+
Start	86	End	4404
Name	OJ991107_44.0421.C17.o1.np	Method	AAT/NAP
Start	985	End	4404
GI	6899918	Score	343
Exons	985..1173, 1278..1350, 1429..1586, 1665..1859, 1946..2070, 2515..2691, 4375..4404		
GI Descrip.	(AL138651) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52556	Seq. ID	OJ991107_44.0421.C17
Gene No.	110891	Strand	+
Start	86	End	4404
Name	OJ991107_44.0421.C17.o1.gp	Method	AAT/GAP

Start	1950	End	2076
GI	none	Score	177
Exons	1950..2076		

Seq. No.	52556	Seq. ID	OJ991107_44.0421.C17
Gene No.	110892	Strand	-
Start	2518	End	2846
Name	OJ991107_44.0421.C17.o2.gp	Method	AAT/GAP
Start	2518	End	2846
GI	none	Score	359
Exons	2518..2691, 2795..2846		

Seq. No.	52557	Seq. ID	OJ991107_44.0421.C18
Gene No.	110893	Strand	+
Start	1868	End	2176
Name	OJ991107_44.0421.C18.o1.np	Method	AAT/NAP
Start	1868	End	2176
GI	7340909	Score	164
Exons	1868..2176		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52557	Seq. ID	OJ991107_44.0421.C18
Gene No.	110894	Strand	-
Start	1306	End	2103
Name	OJ991107_44.0421.C18.o1.gs	Method	GENSCAN
Start	1306	End	2103
GI	none	Score	.58
Exons	1306..1458, 1912..1954, 2090..2103		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19
Gene No.	110895	Strand	+
Start	927	End	11482
Name	OJ991107_44.0421.C19.o1.gs	Method	GENSCAN
Start	927	End	11482
GI	none	Score	.52
Exons	927..982, 2377..2548, 4980..5171, 5232..5545, 5555..6120, 6377..6552, 6987..7121, 8667..8719, 10417..10495, 11351..11482		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19
Gene No.	110895	Strand	+
Start	927	End	11482
Name	OJ991107_44.0421.C19.o2.np	Method	AAT/NAP
Start	5014	End	6180
GI	6907106	Score	387
Exons	5014..5450, 5719..5921, 5994..6180		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19
Gene No.	110896	Strand	+
Start	13102	End	16888
Name	OJ991107_44.0421.C19.o2.gs	Method	GENSCAN
Start	13102	End	16888
GI	none	Score	.4
Exons	13102..13185, 16365..16426, 16735..16888		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19

Gene No.	110897	Strand	-
Start	1	End	1474
Name	OJ991107_44.0421.C19.o1.np	Method	AAT/NAP
Start	1	End	1474
GI	7340909	Score	106
Exons	1..190, 1447..1474		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19
Gene No.	110898	Strand	-
Start	18074	End	18157
Name	OJ991107_44.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	5708	End	6084
GI	none	Score	78
Exons	5708..5743, 5723..5788, 5732..5818, 5758..5820, 5817..5849, 5820..5897, 5850..6083, 5853..6050, 5868..5987, 6019..6084		

Seq. No.	52558	Seq. ID	OJ991107_44.0421.C19
Gene No.	110898	Strand	-
Start	18074	End	18157
Name	OJ991107_44.0421.C19.o3.gs	Method	GENSCAN
Start	18074	End	18157
GI	none	Score	.44
Exons	18074..18157		

Seq. No.	52559	Seq. ID	OJ991107_44.0421.C20
Gene No.	110899	Strand	+
Start	2562	End	2646
Name	OJ991107_44.0421.C20.o2.gp	Method	AAT/GAP
Start	2562	End	2646
GI	62726_1.R1084	Score	144
Exons	2562..2646		
GI Descrip.	'3482929 4.0e-17 (AC003970) Putative transcription factor [Arabidopsis thaliana]'		

Seq. No.	52559	Seq. ID	OJ991107_44.0421.C20
Gene No.	110900	Strand	-
Start	688	End	2646
Name	OJ991107_44.0421.C20.o1.gs	Method	GENSCAN
Start	688	End	2646
GI	none	Score	.52
Exons	688..824, 2416..2520, 2589..2646		

Seq. No.	52559	Seq. ID	OJ991107_44.0421.C20
Gene No.	110900	Strand	-
Start	688	End	2646
Name	OJ991107_44.0421.C20.o1.gp	Method	AAT/GAP
Start	2302	End	2399
GI	90742_1.R1084	Score	97
Exons	2302..2399		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	52560	Seq. ID	OJ991107_35.0421.C1
Gene No.	110901	Strand	-
Start	1	End	627
Name	OJ991107_35.0421.C1.o1.np	Method	AAT/NAP

Start	1	End	627
GI	2498930	Score	699
Exons	1..399, 567..627		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi\|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	52561	Seq. ID	OJ991107_35.0421.C8
Gene No.	110902	Strand	+
Start	1	End	775
Name	OJ991107_35.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	775
GI	5042454	Score	349
Exons	1..235, 750..775		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	52561	Seq. ID	OJ991107_35.0421.C8
Gene No.	110902	Strand	+
Start	1	End	775
Name	OJ991107_35.0421.C8.o2.np	Method	AAT/NAP
Start	226	End	775
GI	5922623	Score	211
Exons	226..306, 688..775		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110903	Strand	+
Start	78	End	518
Name	OJ991107_35.0421.C9.o1.gs	Method	GENSCAN
Start	78	End	518
GI	none	Score	.86
Exons	78..153, 325..518		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110904	Strand	+
Start	3596	End	6588
Name	OJ991107_35.0421.C9.o3.gs	Method	GENSCAN
Start	3596	End	5372
GI	none	Score	.88
Exons	3596..3650, 3910..4120, 4217..5372		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110904	Strand	+
Start	3596	End	6588
Name	OJ991107_35.0421.C9.o2.np	Method	AAT/NAP
Start	3984	End	6588
GI	7228457	Score	3279
Exons	3984..5309, 5373..6207, 6330..6374, 6551..6588		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110904	Strand	+
Start	3596	End	6588
Name	OJ991107_35.0421.C9.o4.gs	Method	GENSCAN

Start	5436	End	6359
GI	none	Score	.98
Exons	5436..6359		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110905	Strand	-
Start	1	End	3472
Name	OJ991107_35.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	3472
GI	5042454	Score	3745
Exons	1..492, 1127..2833, 2889..3005, 3343..3472		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110905	Strand	-
Start	1	End	3472
Name	OJ991107_35.0421.C9.o4.tw	Method	TBLASTX:Wheat
Start	1769	End	2161
GI	none	Score	89
Exons	1769..2026, 1803..2042, 2009..2107, 2010..2090, 2114..2161		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110905	Strand	-
Start	1	End	3472
Name	OJ991107_35.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	1871	End	2156
GI	none	Score	103
Exons	1871..2119, 1872..2156		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110906	Strand	
Start	4730	End	5216
Name	OJ991107_35.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	4730	End	5216
GI	none	Score	412
Exons	4730..4903, 4731..5216, 4925..5212		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110907	Strand	
Start	5381	End	5867
Name	OJ991107_35.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	5381	End	5843
GI	none	Score	584
Exons	5381..5842, 5382..5843		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110907	Strand	
Start	5381	End	5867
Name	OJ991107_35.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	5421	End	5786
GI	none	Score	117
Exons	5421..5645, 5652..5786		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110907	Strand	
Start	5381	End	5867
Name	OJ991107_35.0421.C9.o1.tm	Method	TBLASTX:Maize

Start	5511	End	5867
GI	none	Score	388
Exons	5511..5867, 5546..5857, 5634..5867		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110908	Strand	
Start	5894	End	6374
Name	OJ991107_35.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	5894	End	6278
GI	none	Score	352
Exons	5894..6259, 5895..6278		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110908	Strand	
Start	5894	End	6374
Name	OJ991107_35.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	5952	End	6374
GI	none	Score	461
Exons	5952..6374, 5957..6346		

Seq. No.	52562	Seq. ID	OJ991107_35.0421.C9
Gene No.	110908	Strand	
Start	5894	End	6374
Name	OJ991107_35.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	6030	End	6371
GI	none	Score	241
Exons	6030..6371, 6047..6190		

Seq. No.	52563	Seq. ID	OJ991107_35.0421.C10
Gene No.	110909	Strand	+
Start	2291	End	3000
Name	OJ991107_35.0421.C10.o1.np	Method	AAT/NAP
Start	2291	End	3000
GI	5042454	Score	228
Exons	2291..2426, 2760..3000		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	52563	Seq. ID	OJ991107_35.0421.C10
Gene No.	110910	Strand	-
Start	1	End	2867
Name	OJ991107_35.0421.C10.o2.np	Method	AAT/NAP
Start	1	End	1181
GI	6907089	Score	1552
Exons	1..1181		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52563	Seq. ID	OJ991107_35.0421.C10
Gene No.	110910	Strand	-
Start	1	End	2867
Name	OJ991107_35.0421.C10.o1.gs	Method	GENSCAN
Start	216	End	1181
GI	none	Score	.96
Exons	216..1181		

Seq. No.	52563	Seq. ID	OJ991107_35.0421.C10
Gene No.	110910	Strand	-
Start	1	End	2867

Name	OJ991107_35.0421.C10.o3.np	Method	AAT/NAP
Start	404	End	2867
GI	5922623	Score	332
Exons	404..440, 2018..2093, 2262..2409, 2787..2867		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52564	Seq. ID	OJ991107_35.0421.C11
Gene No.	110911	Strand	+
Start	12	End	751
Name	OJ991107_35.0421.C11.o1.gs	Method	GENSCAN
Start	12	End	751
GI	none	Score	.61
Exons	12..185, 404..496, 638..751		

Seq. No.	52564	Seq. ID	OJ991107_35.0421.C11
Gene No.	110912	Strand	-
Start	1	End	529
Name	OJ991107_35.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	529
GI	5922623	Score	156
Exons	1..72, 449..529		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52564	Seq. ID	OJ991107_35.0421.C11
Gene No.	110913	Strand	-
Start	2281	End	2422
Name	OJ991107_35.0421.C11.o2.gs	Method	GENSCAN
Start	2281	End	2422
GI	none	Score	.74
Exons	2281..2347, 2385..2422		

Seq. No.	52565	Seq. ID	OJ991107_35.0421.C12
Gene No.	110914	Strand	+
Start	858	End	4283
Name	OJ991107_35.0421.C12.o1.np	Method	AAT/NAP
Start	858	End	4283
GI	3980412	Score	310
Exons	858..884, 2117..2526, 3241..3370, 3776..4152, 4183..4283		
GI Descrip.	(AC004561) putative pumilio/Mpt5 family RNA-binding protein [Arabidopsis thaliana]		

Seq. No.	52565	Seq. ID	OJ991107_35.0421.C12
Gene No.	110914	Strand	+
Start	858	End	4283
Name	OJ991107_35.0421.C12.o1.gs	Method	GENSCAN
Start	2072	End	4251
GI	none	Score	.52
Exons	2072..2515, 3574..4251		

Seq. No.	52565	Seq. ID	OJ991107_35.0421.C12
Gene No.	110914	Strand	+
Start	858	End	4283
Name	OJ991107_35.0421.C12.o1.tm	Method	TBLASTX:Maize

Start	2159	End	3935
GI	none	Score	75
Exons	2159..2218, 2237..2368, 3789..3935, 3829..3912		

Seq. No.	52565	Seq. ID	OJ991107_35.0421.C12
Gene No.	110914	Strand	+
Start	858	End	4283
Name	OJ991107_35.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	2162	End	2368
GI	none	Score	67
Exons	2162..2239, 2249..2368		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110915	Strand	+
Start	1	End	3700
Name	OJ991107_35.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	3023
GI	3980413	Score	1291
Exons	1..452, 729..870, 944..1051, 1491..1703, 1814..1924, 2474..2668, 2819..3023		
GI Descrip.	(AC004561) putative pumilio/Mpt5 family RNA-binding protein [Arabidopsis thaliana]		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110915	Strand	+
Start	1	End	3700
Name	OJ991107_35.0421.C13.o1.gs	Method	GENSCAN
Start	50	End	3700
GI	none	Score	.8
Exons	50..202, 242..452, 729..870, 1491..1703, 1850..1924, 2474..2668, 2819..2993, 3696..3700		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	36	End	3195
GI	none	Score	76
Exons	36..179, 51..161, 58..195, 188..412, 192..449, 194..451, 204..452, 262..450, 723..851, 724..870, 727..870, 733..873, 742..876, 790..876, 832..882, 929..1036, 935..1039, 937..1038, 950..1030, 997..1056, 1479..1703, 1486..1689, 1488..1694, 1489..1704, 1490..1699, 1506..1703, 1563..1700, 1811..1924, 1811..1858, 1813..1920, 2459..2671, 2459..2668, 2472..2669, 2473..2670, 2812..2991, 2813..2992, 2819..2968, 2825..2971, 2831..2968, 3087..3122, 3136..3195		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o2.ts	Method	TBLASTX:Soybean
Start	61	End	1053
GI	none	Score	83
Exons	61..156, 148..195, 181..345, 214..333, 279..344, 346..450, 359..445, 376..450, 723..869, 724..888, 727..870, 727..873, 935..1039, 940..1050, 943..1053		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	727	End	2527
GI	none	Score	74
Exons	727..876, 784..876, 971..1039, 989..1039, 1479..1703, 1490..1699, 1500..1715, 1807..1929, 1811..1924, 2459..2527		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	1502	End	2971
GI	none	Score	301
Exons	1502..1699, 1503..1703, 1807..1866, 1811..1867, 2825..2971		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o3.ts	Method	TBLASTX:Soybean
Start	1868	End	2668
GI	none	Score	69
Exons	1868..1924, 2459..2668, 2473..2613		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o2.tc	Method	TBLASTX:Cress
Start	2812	End	2992
GI	none	Score	99
Exons	2812..2958, 2812..2991, 2813..2992		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o2.gs	Method	GENSCAN
Start	4934	End	5449
GI	none	Score	.86
Exons	4934..5449		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o2.np	Method	AAT/NAP
Start	4934	End	5467
GI	6523067	Score	398
Exons	4934..5467		
GI Descrip.	(AL133314) putative protein [Arabidopsis thaliana]		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o3.tc	Method	TBLASTX:Cress
Start	4991	End	5458
GI	none	Score	77
Exons	4991..5083, 5282..5455, 5290..5448, 5297..5458		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	5282	End	5467
GI	none	Score	296
Exons	5282..5467, 5290..5466, 5294..5467		

Seq. No.	52566	Seq. ID	OJ991107_35.0421.C13
Gene No.	110916	Strand	+
Start	4934	End	5467
Name	OJ991107_35.0421.C13.o4.ts	Method	TBLASTX:Soybean
Start	5282	End	5458
GI	none	Score	201
Exons	5282..5458, 5290..5454		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110917	Strand	+
Start	1892	End	2814
Name	OJ991107_35.0421.C14.o2.gp	Method	AAT/GAP
Start	1892	End	2814
GI	LIB3431-026-P1-K1-F8	Score	751
Exons	1892..2087, 2154..2327, 2767..2814		
GI Descrip.	'3859597 3.0e-24 (AF104919) No definition line found [Arabidopsis thaliana]'		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110918	Strand	+
Start	3223	End	3730
Name	OJ991107_35.0421.C14.o3.gp	Method	AAT/GAP
Start	3223	End	3730
GI	none	Score	756
Exons	3223..3270, 3375..3730		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o2.tm	Method	TBLASTX:Maize
Start	1872	End	2330
GI	none	Score	54
Exons	1872..1928, 1905..1994, 1986..2090, 2009..2089, 2151..2258, 2153..2242, 2232..2300, 2279..2329, 2280..2330		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o1.np	Method	AAT/NAP
Start	4468	End	7430
GI	7485695	Score	789
Exons	4468..6044, 7414..7430		
GI Descrip.	hypothetical protein F18A5.40 - Arabidopsis thaliana gi\|4455294\|emb\|CAB36829.1\| (AL035528) putative protein [Arabidopsis thaliana] gi\|7268069\|emb\|CAB78407.1\| (AL161537) putative protein [Arabidopsis thaliana]		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14

Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	4507	End	6027
GI	none	Score	84
Exons	4507..4677, 4738..5091, 4747..5052, 4835..4876, 4978..5151, 4993..5154, 5062..5283, 5138..5179, 5161..5586, 5200..5394, 5305..5631, 5314..5691, 5364..5681, 5698..6027		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o2.tc	Method	TBLASTX:Cress
Start	4507	End	5517
GI	none	Score	84
Exons	4507..4677, 4507..4677, 4516..4677, 4738..4983, 4759..4995, 4804..5298, 4863..5177, 5011..5235, 5275..5517		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	4516	End	5691
GI	none	Score	84
Exons	4516..4677, 4716..4967, 4759..5070, 4957..5373, 5251..5691, 5445..5681		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o2.ts	Method	TBLASTX:Soybean
Start	4716	End	5600
GI	none	Score	129
Exons	4716..4928, 4759..5028, 4975..5331, 5322..5600		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o1.tc	Method	TBLASTX:Cress
Start	5520	End	6045
GI	none	Score	131
Exons	5520..5696, 5521..5700, 5704..6045, 5704..5802		

Seq. No.	52567	Seq. ID	OJ991107_35.0421.C14
Gene No.	110919	Strand	+
Start	4468	End	7430
Name	OJ991107_35.0421.C14.o1.ts	Method	TBLASTX:Soybean
Start	5608	End	6057
GI	none	Score	106
Exons	5608..5700, 5628..5696, 5728..6057		

Seq. No.	52568	Seq. ID	OJ991107_35.0421.C15
Gene No.	110920	Strand	+
Start	96	End	473
Name	OJ991107_35.0421.C15.o1.np	Method	AAT/NAP
Start	96	End	473
GI	6686813	Score	90

Exons	96..221, 337..473		
GI Descrip.	(AJ242602) dihydroxyacetone 3-phosphate reductase [Arabidopsis thaliana]		

Seq. No.	52568	Seq. ID	OJ991107_35.0421.C15
Gene No.	110920	Strand	+
Start	96	End	473
Name	OJ991107_35.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	348	End	468
GI	none	Score	170
Exons	348..467, 358..468		

Seq. No.	52568	Seq. ID	OJ991107_35.0421.C15
Gene No.	110920	Strand	+
Start	96	End	473
Name	OJ991107_35.0421.C15.o1.gs	Method	GENSCAN
Start	358	End	469
GI	none	Score	.88
Exons	358..469		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110921	Strand	+
Start	1	End	2286
Name	OJ991107_35.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	2259
GI	1708025	Score	1052
Exons	1..53, 169..253, 337..409, 766..983, 1068..1175, 1278..1341, 1421..1458, 1543..1663, 1734..1788, 1972..2020, 2104..2259		
GI Descrip.	GLYCEROL-3-PHOSPHATE DEHYDROGENASE [NAD+] gi\|840731\|emb\|CAA56125\| (X79677) glycerol-3-phosphate dehydrogenase (NAD+) [Cuphea lanceolata]		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110921	Strand	+
Start	1	End	2286
Name	OJ991107_35.0421.C16.o1.gs	Method	GENSCAN
Start	188	End	2286
GI	none	Score	.85
Exons	188..253, 337..409, 766..887, 1068..1175, 1278..1341, 1421..1458, 1543..1663, 1734..1788, 1972..2020, 2104..2286		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110922	Strand	-
Start	5156	End	6810
Name	OJ991107_35.0421.C16.o1.gp	Method	AAT/GAP
Start	5156	End	6810
GI	18837_1.R1084	Score	1499
Exons	5156..5617, 5707..5774, 6540..6810		
GI Descrip.	'3080415/emb\|CAA18734.1\| 5.0e-15 (AL022604) cysteine proteinase-like protein [Arabidopsis thaliana]'		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110922	Strand	-
Start	5156	End	6810
Name	OJ991107_35.0421.C16.o2.np	Method	AAT/NAP
Start	5364	End	6629
GI	1345881	Score	582

Exons	5364..5612, 5703..5774, 6540..6629		
GI Descrip.	CYTOCHROME B5 gi\|1076743\|pir\|\|S46307 cytochrome b5 - rice gi\|414705\|emb\|CAA53366\| (X75670) cytochrome b5 [Oryza sativa]		
Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	170	End	2425
GI	none	Score	128
Exons	170..253, 170..253, 175..255, 336..413, 337..414, 760..978, 762..992, 763..993, 764..982, 768..1010, 1065..1175, 1065..1175, 1067..1186, 1258..1329, 1258..1341, 1280..1345, 1281..1343, 1413..1454, 1417..1458, 1417..1458, 1418..1459, 1419..1460, 1540..1662, 1540..1662, 1541..1663, 1542..1667, 1542..1664, 1726..1791, 1734..1796, 1735..1797, 1969..2016, 1970..2020, 1971..2024, 2098..2313, 2103..2297, 2399..2425		
Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o2.tc	Method	TBLASTX:Cress
Start	1277	End	2174
GI	none	Score	105
Exons	1277..1345, 1278..1346, 1413..1454, 1417..1458, 1540..1662, 1540..1647, 1542..1664, 1733..1789, 1735..1797, 1969..2022, 1970..2023, 2068..2166, 2100..2174		
Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o3.ts	Method	TBLASTX:Soybean
Start	1609	End	2263
GI	none	Score	91
Exons	1609..1662, 1611..1664, 1733..1789, 1735..1797, 1969..2016, 1970..2020, 2068..2247, 2099..2263, 2100..2249, 2150..2254		
Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	5281	End	6640
GI	none	Score	122
Exons	5281..5301, 5352..5453, 5358..5630, 5362..5619, 5529..5621, 5677..5817, 5703..5816, 6537..6620, 6538..6609, 6538..6621, 6557..6613, 6566..6640		
Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	5323	End	6640
GI	none	Score	315
Exons	5323..5616, 5360..5617, 5361..5630, 5362..5619, 5526..5630, 5703..5777, 5705..5776, 5708..5785, 6537..6623, 6538..6609, 6566..6640		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	5372	End	6614
GI	none	Score	39
Exons	5372..5410, 5373..5432, 5400..5453, 5404..5613, 5406..5630, 5526..5639, 5672..5776, 5701..5775, 5703..5777, 5703..5795, 6537..6614, 6538..6609		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o1.tc	Method	TBLASTX:Cress
Start	5427	End	6611
GI	none	Score	200
Exons	5427..5630, 5428..5616, 5677..5775, 5703..5777, 5715..5783, 6537..6611		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o2.gp	Method	AAT/GAP
Start	8259	End	8565
GI	3767958	Score	572
Exons	8259..8565		
GI Descrip.	3080415/emb\|CAA18734.1\| 5.0e-15 (AL022604) cysteine proteinase-like protein [Arabidopsis thaliana]		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	8427	End	8646
GI	none	Score	102
Exons	8427..8564, 8428..8562, 8434..8571, 8436..8576, 8577..8645, 8578..8646		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o3.tm	Method	TBLASTX:Maize
Start	8429	End	8640
GI	none	Score	154
Exons	8429..8575, 8433..8576, 8433..8579, 8437..8577, 8575..8640, 8577..8639		

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o3.np	Method	AAT/NAP
Start	8430	End	8645
GI	7435808	Score	264
Exons	8430..8645		
GI Descrip.	cysteine proteinase (EC 3.4.22.-) F23E12.90 - Arabidopsis thaliana gi\|3080415\|emb\|CAA18734.1\| (AL022604) cysteine proteinase-like protein [Arabidopsis thaliana]		

gi|6708181|gb|AAF25831.1|AF191027_1 (AF191027) papain-type cysteine endopeptidase XCP1 [Arabidopsis thaliana] gi|7270487|emb|CAB80252.1| (AL161587) cysteine proteinase-like protein [Arabidopsis thaliana]

Seq. No.	52569	Seq. ID	OJ991107_35.0421.C16
Gene No.	110923	Strand	-
Start	8259	End	8646
Name	OJ991107_35.0421.C16.o3.tc	Method	TBLASTX:Cress
Start	8436	End	8646
GI	none	Score	141
Exons	8436..8579, 8437..8577, 8577..8645, 8584..8646		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.np	Method	AAT/NAP
Start	1	End	890
GI	4836904	Score	839
Exons	1..890		
GI Descrip.	(AC007369) lcl\|prt_seq No definition line found [Arabidopsis thaliana] gi\|6708183\|gb\|AAF25832.1\|AF191028_1 (AF191028) papain-type cysteine endopeptidase XCP2 [Arabidopsis thaliana]		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.gp	Method	AAT/GAP
Start	7	End	366
GI	LIB3434-057-P1-K1-E4	Score	591
Exons	7..366		
GI Descrip.	'1709576/sp\|P05994\|PAP4_CARPA 2.0e-19 PAPAYA PROTEINASE IV PRECURSOR (PPIV) (PAPAYA PEPTIDASE B) (GLYCYL ENDOPEPTIDASE) >gi_953176_emb_CAA54974_ (X78056) proteinase IV [Carica papaya]'		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.tc	Method	TBLASTX:Cress
Start	14	End	800
GI	none	Score	76
Exons	14..73, 15..92, 186..257, 240..281, 282..800, 331..474, 550..795		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.ts	Method	TBLASTX:Soybean
Start	14	End	801
GI	none	Score	112
Exons	14..73, 15..98, 186..476, 211..276, 331..474, 486..800, 550..645, 733..801		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.gs	Method	GENSCAN
Start	65	End	890

GI	none	Score	.62
Exons	65..890		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	198	End	853
GI	none	Score	42
Exons	198..488, 202..273, 331..474, 546..641, 547..621, 624..794, 625..798, 706..795, 720..797, 811..849, 823..852, 827..853		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o1.tw	Method	TBLASTX:Wheat
Start	213	End	503
GI	none	Score	158
Exons	213..503, 214..474		

Seq. No.	52570	Seq. ID	OJ991107_35.0421.C17
Gene No.	110924	Strand	-
Start	1	End	910
Name	OJ991107_35.0421.C17.o2.gp	Method	AAT/GAP
Start	579	End	910
GI	428905	Score	623
Exons	579..910		
GI Descrip.	1709576/sp\|P05994\|PAP4_CARPA 2.0e-19 PAPAYA PROTEINASE IV PRECURSOR (PPIV) (PAPAYA PEPTIDASE B) (GLYCYL ENDOPEPTIDASE) >gi_953176_emb_CAA54974_ (X78056) proteinase IV [Carica papaya]		

Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110925	Strand	+
Start	4567	End	10178
Name	OJ991107_35.0421.C18.o2.gs	Method	GENSCAN
Start	4567	End	10062
GI	none	Score	.81
Exons	4567..4646, 4834..4892, 5524..5661, 5875..6017, 6394..6493, 6542..6675, 6925..7066, 7187..7874, 8829..9793, 9848..10062		

Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110925	Strand	+
Start	4567	End	10178
Name	OJ991107_35.0421.C18.o1.np	Method	AAT/NAP
Start	6196	End	10178
GI	7106512	Score	3149
Exons	6196..6255, 6329..6474, 6599..6744, 6843..6992, 7162..8078, 8578..8635, 8668..9793, 9848..10178		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110926	Strand	+
Start	12540	End	12721
Name	OJ991107_35.0421.C18.o3.np	Method	AAT/NAP
Start	12540	End	12721
GI	7106512	Score	119

Exons	12540..12599, 12673..12721		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110927	Strand	+
Start	19274	End	23730
Name	OJ991107_35.0421.C18.o4.gs	Method	GENSCAN
Start	19274	End	23730
GI	none	Score	.56
Exons	19274..19429, 20084..20110, 23521..23652, 23704..23730		
Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110928	Strand	-
Start	10582	End	16528
Name	OJ991107_35.0421.C18.o3.gs	Method	GENSCAN
Start	10582	End	16528
GI	none	Score	.5
Exons	10582..10739, 10785..10907, 12573..12766, 12860..13035, 16403..16528		
Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110928	Strand	-
Start	10582	End	16528
Name	OJ991107_35.0421.C18.o2.np	Method	AAT/NAP
Start	10585	End	10735
GI	7106513	Score	133
Exons	10585..10735		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		
Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110929	Strand	-
Start	19417	End	21156
Name	OJ991107_35.0421.C18.o1.gp	Method	AAT/GAP
Start	19417	End	21156
GI	LIB3477-003-P1-K1-E9	Score	153
Exons	19417..19471, 21075..21156		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	52571	Seq. ID	OJ991107_35.0421.C18
Gene No.	110930	Strand	-
Start	25448	End	25587
Name	OJ991107_35.0421.C18.o5.gs	Method	GENSCAN
Start	25448	End	25587
GI	none	Score	.86
Exons	25448..25587		
Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110931	Strand	+
Start	677	End	2198
Name	OJ991107_35.0421.C19.o1.gs	Method	GENSCAN
Start	677	End	2198
GI	none	Score	.9
Exons	677..771, 1751..2198		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110932	Strand	+
Start	4600	End	9074
Name	OJ991107_35.0421.C19.o1.np	Method	AAT/NAP
Start	4600	End	9074
GI	6069646	Score	638
Exons	4600..4643, 8288..9074		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110932	Strand	+
Start	4600	End	9074
Name	OJ991107_35.0421.C19.o2.gp	Method	AAT/GAP
Start	6307	End	6493
GI	LIB3477-003-P1-K1-E9	Score	150
Exons	6307..6363, 6450..6493		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110932	Strand	+
Start	4600	End	9074
Name	OJ991107_35.0421.C19.o3.gs	Method	GENSCAN
Start	7050	End	8918
GI	none	Score	.65
Exons	7050..7125, 8485..8918		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110933	Strand	+
Start	12808	End	14481
Name	OJ991107_35.0421.C19.o3.gp	Method	AAT/GAP
Start	12808	End	13196
GI	none	Score	687
Exons	12808..13196		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110933	Strand	+
Start	12808	End	14481
Name	OJ991107_35.0421.C19.o2.np	Method	AAT/NAP
Start	12867	End	14481
GI	3252868	Score	926
Exons	12867..13527, 14094..14481		
GI Descrip.	(AF033536) putative zinc transporter [Arabidopsis thaliana]		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	8504	End	8827
GI	none	Score	243
Exons	8504..8827		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o4.gs	Method	GENSCAN
Start	12801	End	15407
GI	none	Score	.63
Exons	12801..13433, 14120..14283, 14310..14525, 15341..15407		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o1.tc	Method	TBLASTX:Cress
Start	12930	End	14486
GI	none	Score	49
Exons	12930..13007, 13014..13295, 13016..13279, 13434..13526, 13451..13549, 14087..14278, 14116..14289, 14302..14484, 14304..14486		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o4.gp	Method	AAT/GAP
Start	12997	End	13391
GI	LIB3434-058-P1-K1-B12	Score	555
Exons	12997..13028, 13107..13391		
GI Descrip.	'3252868 1.0e-17 (AF033536) putative zinc transporter [Arabidopsis thaliana]'		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	12999	End	14487
GI	none	Score	364
Exons	12999..13295, 13025..13279, 13394..13528, 13407..13529, 14081..14203, 14087..14278, 14116..14283, 14299..14487, 14304..14486		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	14099	End	14367
GI	none	Score	228
Exons	14099..14278, 14099..14206, 14122..14283, 14299..14367, 14304..14366		

Seq. No.	52572	Seq. ID	OJ991107_35.0421.C19
Gene No.	110934	Strand	-
Start	12801	End	15407
Name	OJ991107_35.0421.C19.o5.gp	Method	AAT/GAP
Start	14166	End	14717
GI	56027_1.R1084	Score	1046
Exons	14166..14717		
GI Descrip.	'3252868 3.0e-29 (AF033536) putative zinc transporter [Arabidopsis thaliana]'		

Seq. No.	52573	Seq. ID	OJ991107_35.0421.C20
Gene No.	110935	Strand	+
Start	1	End	1089
Name	OJ991107_35.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	487
GI	7485195	Score	113
Exons	1..174, 465..487		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi\|2244844\|emb\|CAB10266.1\| (Z97337) hypothetical protein [Arabidopsis thaliana] gi\|7268233\|emb\|CAB78529.1\| (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52573	Seq. ID	OJ991107_35.0421.C20
Gene No.	110935	Strand	+
Start	1	End	1089
Name	OJ991107_35.0421.C20.o2.np	Method	AAT/NAP
Start	1	End	1089
GI	7339707	Score	107
Exons	1..53, 333..488, 1071..1089		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52573	Seq. ID	OJ991107_35.0421.C20
Gene No.	110935	Strand	+
Start	1	End	1089
Name	OJ991107_35.0421.C20.o1.gs	Method	GENSCAN
Start	33	End	227
GI	none	Score	.95
Exons	33..227		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110936	Strand	-
Start	1	End	1327
Name	OJ991107_35.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	851
GI	7406669	Score	152
Exons	1..40, 163..260, 346..411, 791..851		
GI Descrip.	(AJ237988) putative ripening-related protein [Vitis vinifera]		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110936	Strand	-
Start	1	End	1327
Name	OJ991107_35.0421.C21.o1.gs	Method	GENSCAN
Start	163	End	851
GI	none	Score	.83
Exons	163..260, 288..411, 791..851		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110936	Strand	-
Start	1	End	1327
Name	OJ991107_35.0421.C21.o1.gp	Method	AAT/GAP
Start	164	End	1327
GI	none	Score	807
Exons	164..260, 346..411, 791..857, 1096..1327		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273

Name	OJ991107_35.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	5	End	419
GI	none	Score	71
Exons	5..46, 163..270, 164..262, 347..412, 351..419		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o2.gs	Method	GENSCAN
Start	2066	End	5225
GI	none	Score	.9
Exons	2066..2197, 3265..3333, 3420..3482, 3904..4005, 4479..4658, 5121..5225		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o2.np	Method	AAT/NAP
Start	3253	End	5273
GI	7486584	Score	1007
Exons	3253..3333, 3420..3482, 3904..4014, 4096..4344, 4479..4658, 5121..5273		
GI Descrip.	hypothetical protein F7H19.90 - Arabidopsis thaliana gi\|3292816\|emb\|CAA19806.1\| (AL031018) putative fizzy-related protein [Arabidopsis thaliana] gi\|7269138\|emb\|CAB79246.1\| (AL161558) putative fizzy-related protein [Arabidopsis thaliana]		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	3265	End	4604
GI	none	Score	59
Exons	3265..3336, 3272..3328, 3420..3485, 3424..3483, 3898..4008, 3902..4006, 3910..4008, 4073..4345, 4077..4349, 4090..4347, 4093..4404, 4096..4164, 4165..4299, 4300..4347, 4476..4556, 4557..4604		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	3295	End	4602
GI	none	Score	66
Exons	3295..3330, 3412..3483, 3423..3482, 3424..3483, 3898..4008, 3916..4008, 3932..4006, 4073..4345, 4085..4345, 4090..4347, 4093..4347, 4195..4299, 4300..4347, 4476..4601, 4477..4602, 4477..4602		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o1.tc	Method	TBLASTX:Cress
Start	3898	End	4347
GI	none	Score	93
Exons	3898..4008, 3914..4006, 3919..4008, 4073..4210, 4096..4209, 4216..4299, 4300..4347		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o2.ts	Method	TBLASTX:Soybean
Start	4611	End	5273
GI	none	Score	118
Exons	4611..4661, 5118..5273, 5119..5271		

Seq. No.	52574	Seq. ID	OJ991107_35.0421.C21
Gene No.	110937	Strand	-
Start	2066	End	5273
Name	OJ991107_35.0421.C21.o2.tm	Method	TBLASTX:Maize
Start	4629	End	5259
GI	none	Score	191
Exons	4629..4661, 5118..5258, 5122..5259, 5122..5259		

Seq. No.	52575	Seq. ID	OJ991107_35.0421.C22
Gene No.	110938	Strand	-
Start	1	End	1062
Name	OJ991107_35.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	296
GI	7484957	Score	84
Exons	1..296		
GI Descrip.	extensin homolog F28A21.80 - Arabidopsis thaliana gi\|4539386\|emb\|CAB37452.1\| (AL035526) extensin-like protein [Arabidopsis thaliana] gi\|7268661\|emb\|CAB78869.1\| (AL161549) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	52575	Seq. ID	OJ991107_35.0421.C22
Gene No.	110938	Strand	-
Start	1	End	1062
Name	OJ991107_35.0421.C22.o1.gs	Method	GENSCAN
Start	146	End	1062
GI	none	Score	.6
Exons	146..270, 346..577, 1046..1062		

Seq. No.	52576	Seq. ID	OJ991107_35.0421.C23
Gene No.	110939	Strand	+
Start	1	End	945
Name	OJ991107_35.0421.C23.o1.np	Method	AAT/NAP
Start	1	End	945
GI	5091513	Score	934
Exons	1..945		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	52576	Seq. ID	OJ991107_35.0421.C23
Gene No.	110939	Strand	+
Start	1	End	945
Name	OJ991107_35.0421.C23.o1.gs	Method	GENSCAN
Start	134	End	652
GI	none	Score	.99
Exons	134..652		

Seq. No.	52577	Seq. ID	OJ991107_37.0421.C10
Gene No.	110940	Strand	+
Start	7	End	1198

Name	OJ991107_37.0421.C10.o1.gs	Method	GENSCAN
Start	7	End	1198
GI	none	Score	.75
Exons	7..55, 1064..1198		

Seq. No.	52578	Seq. ID	OJ991107_37.0421.C12
Gene No.	110941	Strand	-
Start	315	End	1315
Name	OJ991107_37.0421.C12.o1.gs	Method	GENSCAN
Start	315	End	1315
GI	none	Score	.73
Exons	315..426, 1120..1315		

Seq. No.	52579	Seq. ID	OJ991107_37.0421.C13
Gene No.	110942	Strand	-
Start	317	End	407
Name	OJ991107_37.0421.C13.o1.gs	Method	GENSCAN
Start	317	End	407
GI	none	Score	.84
Exons	317..407		

Seq. No.	52580	Seq. ID	OJ991107_37.0421.C18
Gene No.	110943	Strand	+
Start	57	End	236
Name	OJ991107_37.0421.C18.o1.gs	Method	GENSCAN
Start	57	End	236
GI	none	Score	.88
Exons	57..236		

Seq. No.	52581	Seq. ID	OJ991107_37.0421.C22
Gene No.	110944	Strand	-
Start	79	End	797
Name	OJ991107_37.0421.C22.o1.tm	Method	TBLASTX:Maize
Start	61	End	756
GI	none	Score	61
Exons	61..138, 65..151, 90..167, 282..383, 291..377, 295..384, 479..559, 486..656, 490..756, 491..748, 571..750		

Seq. No.	52581	Seq. ID	OJ991107_37.0421.C22
Gene No.	110944	Strand	-
Start	79	End	797
Name	OJ991107_37.0421.C22.o1.np	Method	AAT/NAP
Start	79	End	797
GI	6730082	Score	539
Exons	79..139, 283..380, 490..797		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi\|6730083\|pdb\|1B37\|B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi\|6730084\|pdb\|1B37\|C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	52581	Seq. ID	OJ991107_37.0421.C22
Gene No.	110944	Strand	-
Start	79	End	797
Name	OJ991107_37.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	297	End	603

GI	none	Score	89
Exons	297..383, 298..384, 523..603		

Seq. No.	52581	Seq. ID	OJ991107_37.0421.C22
Gene No.	110944	Strand	-
Start	79	End	797
Name	OJ991107_37.0421.C22.o1.gs	Method	GENSCAN
Start	299	End	747
GI	none	Score	.95
Exons	299..380, 490..747		

Seq. No.	52581	Seq. ID	OJ991107_37.0421.C22
Gene No.	110944	Strand	-
Start	79	End	797
Name	OJ991107_37.0421.C22.o1.tc	Method	TBLASTX:Cress
Start	343	End	750
GI	none	Score	54
Exons	343..384, 345..383, 523..603, 542..601, 616..750		

Seq. No.	52582	Seq. ID	OJ991107_37.0421.C24
Gene No.	110945	Strand	+
Start	171	End	2304
Name	OJ991107_37.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	163	End	2233
GI	none	Score	167
Exons	163..324, 182..325, 203..331, 204..341, 878..1099, 892..921, 924..1100, 1091..1147, 1233..1382, 1237..1383, 1237..1383, 1501..1650, 1504..1650, 1505..1651, 1506..1664, 1518..1664, 1719..1910, 1727..1909, 1910..1984, 1912..1983, 1913..1984, 1914..1994, 2135..2164, 2146..2226, 2148..2225, 2165..2233		

Seq. No.	52582	Seq. ID	OJ991107_37.0421.C24
Gene No.	110945	Strand	+
Start	171	End	2304
Name	OJ991107_37.0421.C24.o1.np	Method	AAT/NAP
Start	171	End	2304
GI	6730082	Score	1256
Exons	171..327, 888..1142, 1240..1383, 1501..1650, 1728..1984, 2139..2304		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi\|6730083\|pdb\|1B37\|B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi\|6730084\|pdb\|1B37\|C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	52582	Seq. ID	OJ991107_37.0421.C24
Gene No.	110945	Strand	+
Start	171	End	2304
Name	OJ991107_37.0421.C24.o1.gs	Method	GENSCAN
Start	212	End	2221
GI	none	Score	.7
Exons	212..370, 888..1034, 1056..1220, 1240..1383, 1501..1650, 1728..1895, 1904..1984, 2140..2221		

Seq. No.	52582	Seq. ID	OJ991107_37.0421.C24
Gene No.	110945	Strand	+

Start	171	End	2304
Name	OJ991107_37.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	1321	End	2223
GI	none	Score	69
Exons	1321..1383, 1326..1382, 1504..1650, 1506..1649, 1725..1859, 1733..1858, 1869..1958, 2146..2223, 2166..2222		

Seq. No.	52582	Seq. ID	OJ991107_37.0421.C24
Gene No.	110945	Strand	+
Start	171	End	2304
Name	OJ991107_37.0421.C24.o1.tc	Method	TBLASTX:Cress
Start	1579	End	1958
GI	none	Score	89
Exons	1579..1650, 1725..1859, 1872..1958		

Seq. No.	52583	Seq. ID	OJ991107_37.0421.C25
Gene No.	110946	Strand	-
Start	314	End	475
Name	OJ991107_37.0421.C25.o1.gs	Method	GENSCAN
Start	314	End	475
GI	none	Score	.57
Exons	314..475		

Seq. No.	52584	Seq. ID	OJ991107_37.0421.C26
Gene No.	110947	Strand	+
Start	1	End	693
Name	OJ991107_37.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	693
GI	6979337	Score	161
Exons	1..369, 641..693		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	52584	Seq. ID	OJ991107_37.0421.C26
Gene No.	110948	Strand	-
Start	23	End	264
Name	OJ991107_37.0421.C26.o1.gs	Method	GENSCAN
Start	23	End	264
GI	none	Score	.66
Exons	23..264		

Seq. No.	52585	Seq. ID	OJ991107_37.0421.C29
Gene No.	110949	Strand	+
Start	788	End	887
Name	OJ991107_37.0421.C29.o1.gp	Method	AAT/GAP
Start	788	End	887
GI	none	Score	174
Exons	788..887		

Seq. No.	52585	Seq. ID	OJ991107_37.0421.C29
Gene No.	110950	Strand	-
Start	964	End	1373
Name	OJ991107_37.0421.C29.o1.gs	Method	GENSCAN
Start	964	End	1373
GI	none	Score	.55
Exons	964..1373		

Seq. No.	52586	Seq. ID	OJ991107_37.0421.C34

Gene No.	110951	Strand	-
Start	197	End	483
Name	OJ991107_37.0421.C34.o1.gs	Method	GENSCAN
Start	197	End	483
GI	none	Score	.58
Exons	197..357, 439..483		

Seq. No.	52587	Seq. ID	OJ991107_37.0421.C35
Gene No.	110952	Strand	+
Start	1	End	972
Name	OJ991107_37.0421.C35.o1.np	Method	AAT/NAP
Start	1	End	451
GI	2281633	Score	184
Exons	1..451		
GI Descrip.	(AF003097) AP2 domain containing protein RAP2.4 [Arabidopsis thaliana]		

Seq. No.	52587	Seq. ID	OJ991107_37.0421.C35
Gene No.	110952	Strand	+
Start	1	End	972
Name	OJ991107_37.0421.C35.o1.gp	Method	AAT/GAP
Start	71	End	972
GI	none	Score	1707
Exons	71..972		

Seq. No.	52587	Seq. ID	OJ991107_37.0421.C35
Gene No.	110952	Strand	+
Start	1	End	972
Name	OJ991107_37.0421.C35.o1.gs	Method	GENSCAN
Start	134	End	460
GI	none	Score	.93
Exons	134..460		

Seq. No.	52587	Seq. ID	OJ991107_37.0421.C35
Gene No.	110952	Strand	+
Start	1	End	972
Name	OJ991107_37.0421.C35.o1.tm	Method	TBLASTX:Maize
Start	347	End	748
GI	none	Score	183
Exons	347..451, 349..450, 531..548, 607..663, 707..748, 710..748		

Seq. No.	52588	Seq. ID	OJ991107_37.0421.C36
Gene No.	110953	Strand	-
Start	1202	End	1389
Name	OJ991107_37.0421.C36.o1.gs	Method	GENSCAN
Start	1202	End	1389
GI	none	Score	.42
Exons	1202..1389		

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o2.np	Method	AAT/NAP
Start	99	End	638
GI	6319511	Score	115
Exons	99..256, 333..465, 551..638		
GI Descrip.	inner mitochondrial membrane protein; Scolp		

gi|134307|sp|P23833|SCO1_YEAST SCO1 PROTEIN PRECURSOR
gi|83521|pir||JE0051 SCO1 protein precursor - yeast
(Saccharomyces cerevisiae) gi|536256|emb|CAA84979| (Z35906) ORF
YBR037c [Saccharomyces cerevisiae] gi|666104|emb|CAA35490|
(X17441) SCO1 protein precursor [Saccharomyces cerevisiae]

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o1.gp	Method	AAT/GAP
Start	111	End	600
GI	57783_1.R1084	Score	594
Exons	111..256, 333..465, 551..600		
GI Descrip.	'3080443/emb\|CAA18760.1\| 2.0e-21 (AL022605) putative protein [Arabidopsis thaliana]'		

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o1.tm	Method	TBLASTX:Maize
Start	130	End	656
GI	none	Score	147
Exons	130..255, 131..259, 312..464, 330..467, 332..466, 520..642, 552..656, 552..656		

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o1.gs	Method	GENSCAN
Start	136	End	662
GI	none	Score	.95
Exons	136..256, 333..465, 551..662		

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o1.np	Method	AAT/NAP
Start	151	End	926
GI	7487210	Score	195
Exons	151..256, 333..486, 893..926		
GI Descrip.	hypothetical protein T19P19.130 - Arabidopsis thaliana gi\|3080443\|emb\|CAA18760.1\| (AL022605) putative protein [Arabidopsis thaliana] gi\|7270958\|emb\|CAB80637.1\| (AL161595) putative protein [Arabidopsis thaliana]		

Seq. No.	52589	Seq. ID	OJ991107_37.0421.C40
Gene No.	110954	Strand	-
Start	136	End	926
Name	OJ991107_37.0421.C40.o1.ts	Method	TBLASTX:Soybean
Start	200	End	644
GI	none	Score	54
Exons	200..259, 205..255, 329..466, 330..467, 332..466, 555..638, 555..644		

Seq. No.	52590	Seq. ID	OJ991107_37.0421.C41
Gene No.	110955	Strand	+
Start	1	End	881

Name	OJ991107_37.0421.C41.o1.np	Method	AAT/NAP
Start	1	End	881
GI	3980411	Score	88
Exons	1..881		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	52590	Seq. ID	OJ991107_37.0421.C41
Gene No.	110955	Strand	+
Start	1	End	881
Name	OJ991107_37.0421.C41.o1.gs	Method	GENSCAN
Start	265	End	840
GI	none	Score	.6
Exons	265..338, 343..840		

Seq. No.	52591	Seq. ID	OJ991107_37.0421.C49
Gene No.	110956	Strand	+
Start	48	End	891
Name	OJ991107_37.0421.C49.o1.gs	Method	GENSCAN
Start	48	End	891
GI	none	Score	.63
Exons	48..351, 759..891		

Seq. No.	52592	Seq. ID	OJ991107_37.0421.C50
Gene No.	110957	Strand	+
Start	230	End	1026
Name	OJ991107_37.0421.C50.o1.gp	Method	AAT/GAP
Start	230	End	1026
GI	none	Score	1531
Exons	230..1026		

Seq. No.	52593	Seq. ID	OJ991107_37.0421.C57
Gene No.	110958	Strand	+
Start	85	End	548
Name	OJ991107_37.0421.C57.o1.gs	Method	GENSCAN
Start	85	End	548
GI	none	Score	.62
Exons	85..259, 379..548		

Seq. No.	52594	Seq. ID	OJ991107_37.0421.C58
Gene No.	110959	Strand	+
Start	225	End	689
Name	OJ991107_37.0421.C58.o1.gs	Method	GENSCAN
Start	225	End	689
GI	none	Score	.66
Exons	225..244, 491..689		

Seq. No.	52595	Seq. ID	OJ991107_37.0421.C62
Gene No.	110960	Strand	+
Start	1	End	1930
Name	OJ991107_37.0421.C62.o1.np	Method	AAT/NAP
Start	1	End	1930
GI	4582447	Score	1019
Exons	1..1930		
GI Descrip.	(AC007071) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	52595	Seq. ID	OJ991107_37.0421.C62

Gene No.	110960	Strand	+
Start	1	End	1930
Name	OJ991107_37.0421.C62.o1.tm	Method	TBLASTX:Maize
Start	875	End	1800
GI	none	Score	109
Exons	875..1039, 1058..1315, 1213..1266, 1348..1488, 1513..1800		

Seq. No.	52595	Seq. ID	OJ991107_37.0421.C62
Gene No.	110960	Strand	+
Start	1	End	1930
Name	OJ991107_37.0421.C62.o1.tw	Method	TBLASTX:Wheat
Start	920	End	1276
GI	none	Score	171
Exons	920..1063, 922..1059, 1058..1114, 1099..1209, 1104..1202, 1108..1275, 1109..1276		

Seq. No.	52595	Seq. ID	OJ991107_37.0421.C62
Gene No.	110960	Strand	+
Start	1	End	1930
Name	OJ991107_37.0421.C62.o2.tw	Method	TBLASTX:Wheat
Start	1452	End	1869
GI	none	Score	371
Exons	1452..1817, 1453..1836, 1806..1832, 1807..1869		

Seq. No.	52596	Seq. ID	OJ991107_37.0421.C63
Gene No.	110961	Strand	+
Start	2071	End	2353
Name	OJ991107_37.0421.C63.o1.gp	Method	AAT/GAP
Start	2071	End	2353
GI	3762906	Score	338
Exons	2071..2353		

Seq. No.	52596	Seq. ID	OJ991107_37.0421.C63
Gene No.	110962	Strand	-
Start	786	End	4619
Name	OJ991107_37.0421.C63.o1.tw	Method	TBLASTX:Wheat
Start	369	End	778
GI	none	Score	219
Exons	369..725, 725..778		

Seq. No.	52596	Seq. ID	OJ991107_37.0421.C63
Gene No.	110962	Strand	-
Start	786	End	4619
Name	OJ991107_37.0421.C63.o2.np	Method	AAT/NAP
Start	786	End	4604
GI	4586043	Score	237
Exons	786..859, 3330..3370, 3481..3557, 3780..4019, 4526..4604		
GI Descrip.	(AC007020) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52596	Seq. ID	OJ991107_37.0421.C63
Gene No.	110962	Strand	-
Start	786	End	4619
Name	OJ991107_37.0421.C63.o2.gp	Method	AAT/GAP
Start	2363	End	3554
GI	LIB3434-018-P1-K1-D7	Score	1009
Exons	2363..2783, 3185..3218, 3334..3370, 3481..3554		
GI Descrip.	'3395440 5.0e-22 (AC004683) hypothetical protein [Arabidopsis		

thaliana]'

Seq. No.	52596	Seq. ID	OJ991107_37.0421.C63
Gene No.	110962	Strand	-
Start	786	End	4619
Name	OJ991107_37.0421.C63.o2.gs	Method	GENSCAN
Start	2399	End	4619
GI	none	Score	.89
Exons	2399..2643, 2709..2846, 3334..3370, 3481..3557, 3780..4052, 4081..4204, 4530..4619		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110963	Strand	+
Start	342	End	1412
Name	OJ991107_37.0421.C64.o1.gs	Method	GENSCAN
Start	342	End	1412
GI	none	Score	.73
Exons	342..573, 1354..1412		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110964	Strand	+
Start	7301	End	7656
Name	OJ991107_37.0421.C64.o4.gp	Method	AAT/GAP
Start	7301	End	7656
GI	none	Score	669
Exons	7301..7656		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110965	Strand	+
Start	18026	End	23252
Name	OJ991107_37.0421.C64.o4.np	Method	AAT/NAP
Start	18026	End	23252
GI	7339707	Score	81
Exons	18026..18158, 18211..18672, 19194..19322, 23234..23252		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110966	Strand	-
Start	2892	End	3139
Name	OJ991107_37.0421.C64.o1.gp	Method	AAT/GAP
Start	2892	End	3139
GI	none	Score	473
Exons	2892..3139		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o3.tm	Method	TBLASTX:Maize
Start	3383	End	4716
GI	none	Score	95
Exons	3383..3472, 3386..3472, 3387..3503, 3549..3590, 3553..3591, 3594..3818, 3594..3848, 3595..3849, 3724..4062, 3831..4064, 3845..4063, 4454..4606, 4458..4601, 4574..4618, 4607..4714, 4608..4715, 4624..4716, 4666..4716		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-

Start	3389	End	23252
Name	OJ991107_37.0421.C64.o1.np	Method	AAT/NAP
Start	3389	End	6090
GI	6016688	Score	995
Exons	3389..3469, 3552..3821, 3849..4061, 4460..4942, 5578..6090		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.gs	Method	GENSCAN
Start	3389	End	23172
GI	none	Score	.62
Exons	3389..3469, 3552..4061, 4460..4942, 5578..6032, 7441..7464, 7914..7996, 8525..8624, 8719..8923, 9589..9701, 10665..10734, 11137..11485, 11623..11684, 11982..12557, 12739..13171, 13381..14249, 14342..15136, 16044..16261, 16964..17310, 17393..17541, 18246..18756, 18763..19048, 19624..19819, 21675..21740, 21866..22029, 22707..22794, 22898..22958, 23039..23172		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o6.tc	Method	TBLASTX:Cress
Start	3395	End	3777
GI	none	Score	68
Exons	3395..3472, 3525..3752, 3549..3776, 3550..3777		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.gp	Method	AAT/GAP
Start	4658	End	4847
GI	6025108	Score	313
Exons	4658..4847		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o4.tm	Method	TBLASTX:Maize
Start	4717	End	4946
GI	none	Score	296
Exons	4717..4944, 4718..4945, 4719..4946		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o7.tm	Method	TBLASTX:Maize
Start	5641	End	5942
GI	none	Score	192
Exons	5641..5712, 5644..5883, 5788..5883, 5884..5916, 5913..5942		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o3.gp	Method	AAT/GAP

Start	5798	End	6127
GI	2427532	Score	623
Exons	5798..6127		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o3.ts	Method	TBLASTX:Soybean
Start	11822	End	13011
GI	none	Score	479
Exons	11822..11839, 11961..12566, 11965..12558, 11967..12560, 12299..12565, 12734..12805, 12737..12991, 12739..13011, 12739..12999, 12860..13000		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o1.tm	Method	TBLASTX:Maize
Start	11954	End	14232
GI	none	Score	650
Exons	11954..12256, 11955..12560, 11961..12566, 12098..12568, 12732..12797, 12734..12823, 12739..13170, 12739..13176, 13380..13466, 13380..14231, 13384..14232		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o1.tw	Method	TBLASTX:Wheat
Start	11959	End	12348
GI	none	Score	456
Exons	11959..12015, 11961..12347, 11961..12347, 12097..12348		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o3.tc	Method	TBLASTX:Cress
Start	11961	End	12386
GI	none	Score	252
Exons	11961..12362, 11967..12386, 12115..12384		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.np	Method	AAT/NAP
Start	11964	End	17198
GI	401237	Score	4740
Exons	11964..12557, 12739..13171, 13381..14249, 14342..15136, 16044..16261, 16964..17198		
GI Descrip.	UBIQUITIN-ACTIVATING ENZYME E1 2 gi\|170684 (M90663) ubiquitin activating enyme [Triticum aestivum]		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o5.gp	Method	AAT/GAP
Start	12301	End	13676
GI	31454_1.R1084	Score	1829

Exons	12301..12557, 12739..13171, 13381..13676
GI Descrip.	'401237/sp\|P31251\|UBA2_WHEAT 1.0e-142 UBIQUITIN-ACTIVATING ENZYME E1 2 >gi_170684 (M90663) ubiquitin activating enyme [Triticum aestivum]'

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o5.tc	Method	TBLASTX:Cress
Start	12387	End	13044
GI	none	Score	218
Exons	12387..12566, 12388..12558, 12394..12567, 12395..12568, 12737..12775, 12739..13038, 12739..13044, 12854..13042		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o5.ts	Method	TBLASTX:Soybean
Start	13012	End	13506
GI	none	Score	160
Exons	13012..13176, 13037..13171, 13378..13497, 13380..13505, 13384..13506		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o1.tc	Method	TBLASTX:Cress
Start	13045	End	13833
GI	none	Score	122
Exons	13045..13176, 13046..13174, 13380..13832, 13381..13830, 13525..13833, 13530..13832		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.ts	Method	TBLASTX:Soybean
Start	13512	End	14196
GI	none	Score	182
Exons	13512..13661, 13513..13662, 13657..14196, 13657..13860, 13662..14195		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.tw	Method	TBLASTX:Wheat
Start	13767	End	16229
GI	none	Score	325
Exons	13767..14150, 13768..14151, 13949..14155, 16083..16229		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o6.gp	Method	AAT/GAP
Start	13848	End	14247
GI	uC-osflm202102h02b1	Score	732
Exons	13848..14247		
GI Descrip.	'136632/sp\|P20973\|UBA1_WHEAT 7.0e-45 UBIQUITIN-ACTIVATING ENZYME		

E1 1 >gi_100841_pir__A38373 ubiquitin--protein ligase (EC 6.3.2.19) E1 - wheat >gi_285451_pir__A42873 ubiquitin-activating enzyme E1, UBA1 - Wheat >gi_170780 (M55604) ubiquitin-activating enzyme E1 [Triticum aestivum]'

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o4.tc	Method	TBLASTX:Cress
Start	13854	End	14402
GI	none	Score	257
Exons	13854..14261, 13854..14258, 14042..14269, 14366..14401, 14367..14402		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o1.ts	Method	TBLASTX:Soybean
Start	14199	End	16164
GI	none	Score	64
Exons	14199..14255, 14199..14258, 14342..15145, 14349..14453, 14517..15137, 14709..15152, 16000..16164, 16044..16160		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.tm	Method	TBLASTX:Maize
Start	14408	End	15136
GI	none	Score	850
Exons	14408..15133, 14409..15134, 14410..15135, 14915..15136		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o2.tc	Method	TBLASTX:Cress
Start	14555	End	15017
GI	none	Score	423
Exons	14555..15010, 14556..15017		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o7.gp	Method	AAT/GAP
Start	14641	End	15106
GI	uC-osf1M202083c01b1	Score	896
Exons	14641..15106		
GI Descrip.	'401237/sp\|P31251\|UBA2_WHEAT 1.0e-79 UBIQUITIN-ACTIVATING ENZYME E1 2 >gi_170684 (M90663) ubiquitin activating enyme [Triticum aestivum]'		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o8.tc	Method	TBLASTX:Cress
Start	15017	End	17021
GI	none	Score	81
Exons	15017..15145, 15024..15134, 16065..16262, 16075..16263,		

16914..17021, 16966..17016

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o6.tm	Method	TBLASTX:Maize
Start	16100	End	17202
GI	none	Score	188
Exons	16100..16255, 16101..16262, 16914..17093, 16965..17081, 16966..17100, 17053..17202, 17142..17201		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o6.ts	Method	TBLASTX:Soybean
Start	16212	End	17085
GI	none	Score	67
Exons	16212..16262, 16219..16263, 16914..17084, 16962..17081, 16966..17085, 17026..17085		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o3.np	Method	AAT/NAP
Start	17883	End	18879
GI	7242910	Score	90
Exons	17883..17969, 18054..18536, 18654..18879		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o8.gp	Method	AAT/GAP
Start	19369	End	19424
GI	uC-osflcyp111c03a1	Score	83
Exons	19369..19424		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 4.0e-11 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o9.gp	Method	AAT/GAP
Start	20894	End	21931
GI	676_1.R1084	Score	1287
Exons	20894..21391, 21498..21561, 21675..21740, 21866..21931		
GI Descrip.	'2130127/pir\|\|S66524 5.0e-33 ferritin 1 precursor - maize >gi_1103628_emb_CAA58146_ (X83076) ferritin [Zea mays]'		

Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o5.np	Method	AAT/NAP
Start	21351	End	23252
GI	120507	Score	546
Exons	21351..21391, 21498..21561, 21675..21740, 21866..21927, 22707..22794, 22898..22958, 23039..23252		

GI Descrip.	FERRITIN 1 PRECURSOR gi\|82687\|pir\|\|S22498 ferritin precursor (clone FM1) - maize (fragment) gi\|22276\|emb\|CAA43663\| (X61391) ferritin [Zea mays]		
Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o5.tm	Method	TBLASTX:Maize
Start	21353	End	23125
GI	none	Score	115
Exons	21353..21391, 21458..21595, 21496..21564, 21669..21740, 21673..21741, 21863..21928, 21863..21928, 21864..21953, 21864..21938, 22697..22795, 22705..22797, 22708..22797, 22898..22957, 22898..22960, 23037..23120, 23038..23124, 23039..23125		
Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o4.ts	Method	TBLASTX:Soybean
Start	21363	End	23125
GI	none	Score	108
Exons	21363..21386, 21485..21595, 21496..21564, 21669..21740, 21673..21741, 21863..21928, 21864..21929, 22697..22798, 22708..22797, 22898..22960, 23037..23123, 23038..23124, 23039..23125		
Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o7.tc	Method	TBLASTX:Cress
Start	21363	End	23125
GI	none	Score	99
Exons	21363..21386, 21485..21562, 21496..21564, 21669..21740, 21863..21928, 21864..21953, 22708..22797, 22712..22798, 22898..22960, 23037..23123, 23038..23124, 23039..23125		
Seq. No.	52597	Seq. ID	OJ991107_37.0421.C64
Gene No.	110967	Strand	-
Start	3389	End	23252
Name	OJ991107_37.0421.C64.o10.gp	Method	AAT/GAP
Start	22707	End	23252
GI	LIB3431-031-P1-K1-G4	Score	646
Exons	22707..22794, 22898..22958, 23039..23252		
GI Descrip.	'2130127/pir\|\|S66524 1.0e-38 ferritin 1 precursor - maize >gi_1103628_emb_CAA58146_ (X83076) ferritin [Zea mays]'		
Seq. No.	52598	Seq. ID	OJ991107_37.0421.C65
Gene No.	110968	Strand	+
Start	1556	End	2382
Name	OJ991107_37.0421.C65.o2.gs	Method	GENSCAN
Start	1556	End	2382
GI	none	Score	.78
Exons	1556..1632, 1723..1927, 2239..2382		
Seq. No.	52598	Seq. ID	OJ991107_37.0421.C65
Gene No.	110969	Strand	-

Start	1	End	526
Name	OJ991107_37.0421.C65.o1.np	Method	AAT/NAP
Start	1	End	526
GI	120510	Score	255
Exons	1..526		
GI Descrip.	FERRITIN 2 PRECURSOR gi\|82688\|pir\|\|S24057 ferritin precursor (clone FM2) - maize gi\|22278\|emb\|CAA43664\| (X61392) ferritin [Zea mays]		

Seq. No.	52598	Seq. ID	OJ991107_37.0421.C65
Gene No.	110969	Strand	-
Start	1	End	526
Name	OJ991107_37.0421.C65.o1.gp	Method	AAT/GAP
Start	108	End	469
GI	7612_3.R1084	Score	686
Exons	108..469		
GI Descrip.	'2130127/pir\|\|S66524 2.0e-44 ferritin 1 precursor - maize >gi_1103628_emb_CAA58146_ (X83076) ferritin [Zea mays]'		

Seq. No.	52598	Seq. ID	OJ991107_37.0421.C65
Gene No.	110969	Strand	-
Start	1	End	526
Name	OJ991107_37.0421.C65.o1.tm	Method	TBLASTX:Maize
Start	108	End	281
GI	none	Score	209
Exons	108..281, 110..280		

Seq. No.	52598	Seq. ID	OJ991107_37.0421.C65
Gene No.	110969	Strand	-
Start	1	End	526
Name	OJ991107_37.0421.C65.o1.gs	Method	GENSCAN
Start	108	End	394
GI	none	Score	.6
Exons	108..394		

Seq. No.	52599	Seq. ID	OJ991107_37.0421.C66
Gene No.	110970	Strand	+
Start	3992	End	5281
Name	OJ991107_37.0421.C66.o1.np	Method	AAT/NAP
Start	3992	End	5281
GI	7487477	Score	397
Exons	3992..4356, 5233..5281		
GI Descrip.	hypothetical protein T27E13.13 - Arabidopsis thaliana gi\|3150407\|gb\|AAC16959.1\| (AC004165) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52599	Seq. ID	OJ991107_37.0421.C66
Gene No.	110970	Strand	+
Start	3992	End	5281
Name	OJ991107_37.0421.C66.o1.tm	Method	TBLASTX:Maize
Start	3992	End	4243
GI	none	Score	320
Exons	3992..4243, 4012..4128, 4064..4222, 4192..4242		

Seq. No.	52599	Seq. ID	OJ991107_37.0421.C66
Gene No.	110970	Strand	+
Start	3992	End	5281

Name	OJ991107_37.0421.C66.o1.tc	Method	TBLASTX:Cress
Start	3995	End	4288
GI	none	Score	385
Exons	3995..4288, 4012..4128, 4073..4150, 4192..4281		

Seq. No.	52599	Seq. ID	OJ991107_37.0421.C66
Gene No.	110970	Strand	+
Start	3992	End	5281
Name	OJ991107_37.0421.C66.o1.ts	Method	TBLASTX:Soybean
Start	4004	End	4285
GI	none	Score	325
Exons	4004..4285, 4015..4257		

Seq. No.	52600	Seq. ID	OJ991107_37.0421.C67
Gene No.	110971	Strand	+
Start	200	End	260
Name	OJ991107_37.0421.C67.o1.gs	Method	GENSCAN
Start	200	End	260
GI	none	Score	.53
Exons	200..260		

Seq. No.	52600	Seq. ID	OJ991107_37.0421.C67
Gene No.	110972	Strand	-
Start	1447	End	1516
Name	OJ991107_37.0421.C67.o1.gp	Method	AAT/GAP
Start	1447	End	1516
GI	LIB3477-003-P1-K1-E9	Score	103
Exons	1447..1516		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52600	Seq. ID	OJ991107_37.0421.C67
Gene No.	110973	Strand	-
Start	3999	End	4058
Name	OJ991107_37.0421.C67.o2.gs	Method	GENSCAN
Start	3999	End	4058
GI	none	Score	.62
Exons	3999..4058		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110974	Strand	+
Start	1	End	159
Name	OJ991107_37.0421.C68.o1.np	Method	AAT/NAP
Start	1	End	159
GI	4680183	Score	124
Exons	1..159		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110975	Strand	+
Start	2668	End	2745
Name	OJ991107_37.0421.C68.o1.gp	Method	AAT/GAP
Start	2668	End	2745
GI	90742_1.R1084	Score	98
Exons	2668..2745		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 4.0e-29 Oryza sativa genomic		

DNA, chromosome 6, clone:P0538C01'

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110976	Strand	+
Start	3776	End	3864
Name	OJ991107_37.0421.C68.o2.gp	Method	AAT/GAP
Start	3776	End	3864
GI	90742_1.R1084	Score	106
Exons	3776..3864		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110977	Strand	+
Start	8130	End	11632
Name	OJ991107_37.0421.C68.o2.np	Method	AAT/NAP
Start	7190	End	11632
GI	7487161	Score	880
Exons	7190..7285, 8556..8752, 10081..10252, 10356..10533, 10759..10936, 11278..11632		
GI Descrip.	hypothetical protein T19C21.19 - Arabidopsis thaliana gi\|3395440\|gb\|AAC28772.1\| (AC004683) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110977	Strand	+
Start	8130	End	11632
Name	OJ991107_37.0421.C68.o3.gp	Method	AAT/GAP
Start	8064	End	8428
GI	568508	Score	671
Exons	8064..8428		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110977	Strand	+
Start	8130	End	11632
Name	OJ991107_37.0421.C68.o3.gs	Method	GENSCAN
Start	8130	End	11626
GI	none	Score	.73
Exons	8130..8752, 10081..10252, 10356..10564, 10778..10936, 11278..11626		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110977	Strand	+
Start	8130	End	11632
Name	OJ991107_37.0421.C68.o4.gp	Method	AAT/GAP
Start	8673	End	10442
GI	60674_1.R1084	Score	626
Exons	8673..8752, 10081..10252, 10356..10442		
GI Descrip.	'3395440 3.0e-40 (AC004683) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110978	Strand	-
Start	5457	End	6222
Name	OJ991107_37.0421.C68.o2.gs	Method	GENSCAN
Start	5457	End	6222
GI	none	Score	.52

Exons	5457..5577, 6164..6222		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o1.tm	Method	TBLASTX:Maize
Start	8267	End	11623
GI	none	Score	115
Exons	8267..8365, 8268..8369, 8492..8530, 8501..8548, 8585..8737, 8586..8738, 8592..8738, 8593..8739, 8683..8739, 10065..10184, 10078..10200, 10079..10207, 10199..10249, 10199..10255, 10207..10257, 10355..10567, 10356..10565, 10359..10568, 10740..10946, 10740..10946, 10780..10947, 11273..11623, 11273..11599, 11311..11604, 11400..11609		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o2.tw	Method	TBLASTX:Wheat
Start	8291	End	8702
GI	none	Score	97
Exons	8291..8368, 8292..8369, 8498..8545, 8499..8546, 8501..8518, 8585..8701, 8586..8702		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o1.tw	Method	TBLASTX:Wheat
Start	8709	End	10534
GI	none	Score	78
Exons	8709..8756, 8709..8753, 10078..10182, 10078..10233, 10079..10246, 10350..10529, 10355..10534		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o1.ts	Method	TBLASTX:Soybean
Start	8712	End	10520
GI	none	Score	79
Exons	8712..8756, 10075..10257, 10079..10249, 10353..10520, 10355..10513		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o2.tc	Method	TBLASTX:Cress
Start	10364	End	10561
GI	none	Score	182
Exons	10364..10561, 10365..10529		
Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o1.tc	Method	TBLASTX:Cress
Start	10818	End	11614
GI	none	Score	81
Exons	10818..10937, 11276..11419, 11403..11591, 11408..11614,		

11409..11591, 11441..11602

Seq. No.	52601	Seq. ID	OJ991107_37.0421.C68
Gene No.	110979	Strand	
Start	8267	End	11623
Name	OJ991107_37.0421.C68.o2.ts	Method	TBLASTX:Soybean
Start	11276	End	11574
GI	none	Score	273
Exons	11276..11572, 11279..11572, 11416..11574, 11419..11574		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o1.gp	Method	AAT/GAP
Start	314	End	662
GI	287036	Score	453
Exons	314..462, 502..662		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o1.gs	Method	GENSCAN
Start	400	End	2956
GI	none	Score	.63
Exons	400..827, 1022..2151, 2316..2438, 2853..2956		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o1.np	Method	AAT/NAP
Start	1477	End	12482
GI	6016721	Score	1065
Exons	1477..1584, 8501..8803, 11049..11608, 11675..11936, 12024..12482		
GI Descrip.	(AC009325) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o2.gs	Method	GENSCAN
Start	3749	End	6766
GI	none	Score	.53
Exons	3749..3849, 4764..5012, 6697..6766		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o3.gs	Method	GENSCAN
Start	8435	End	12524
GI	none	Score	.55
Exons	8435..8803, 9804..9860, 11049..11923, 12014..12524		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o2.gp	Method	AAT/GAP
Start	11394	End	11879
GI	none	Score	718

Exons	11394..11793, 11848..11879		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110980	Strand	+
Start	314	End	12524
Name	OJ991107_37.0421.C69.o3.gp	Method	AAT/GAP
Start	12066	End	12517
GI	LIB3431-034-P1-K1-A3	Score	797
Exons	12066..12517		
GI Descrip.	'3080375/emb\|CAA18632.1\| 3.0e-37 (AL022580) putative protein [Arabidopsis thaliana]'		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o5.gs	Method	GENSCAN
Start	14762	End	21353
GI	none	Score	.82
Exons	14762..15113, 15290..15397, 15527..15658, 15753..15913, 16599..16734, 17563..17726, 18366..18477, 19142..19458, 21009..21209, 21300..21353		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o3.np	Method	AAT/NAP
Start	14786	End	18661
GI	7487160	Score	1032
Exons	14786..15113, 15527..15658, 15771..15913, 16599..16734, 16919..17015, 17151..17251, 17563..17726, 17812..17883, 17979..18095, 18180..18275, 18366..18487, 18553..18661		
GI Descrip.	hypothetical protein T19C21.18 - Arabidopsis thaliana gi\|3395439\|gb\|AAC28771.1\| (AC004683) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o4.gp	Method	AAT/GAP
Start	14877	End	15882
GI	uC-osf1cyp046c07b1	Score	932
Exons	14877..15113, 15527..15658, 15742..15882		
GI Descrip.	'3395439 1.0e-27 (AC004683) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o5.gp	Method	AAT/GAP
Start	18142	End	19007
GI	2616_1.R1084	Score	770
Exons	18142..18275, 18366..18487, 18573..18834, 18857..19007		
GI Descrip.	'3395439 7.0e-23 (AC004683) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+

Start	14762	End	21619
Name	OJ991107_37.0421.C69.o6.gp	Method	AAT/GAP
Start	19267	End	19476
GI	12864_1.R1084	Score	258
Exons	19267..19476		
GI Descrip.	'4760544/dbj\|AB019492.1\|AB019492 5.0e-23 Homo sapiens IDN4-GGTR14 mRNA, partial cds'		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o4.np	Method	AAT/NAP
Start	19348	End	21558
GI	7327824	Score	418
Exons	19348..19458, 21009..21209, 21526..21558		
GI Descrip.	(AL161946) light-inducible protein ATLS1 [Arabidopsis thaliana]		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110981	Strand	+
Start	14762	End	21619
Name	OJ991107_37.0421.C69.o7.gp	Method	AAT/GAP
Start	21045	End	21619
GI	12864_1.R1084	Score	401
Exons	21045..21209, 21526..21619		
GI Descrip.	'4760544/dbj\|AB019492.1\|AB019492 5.0e-23 Homo sapiens IDN4-GGTR14 mRNA, partial cds'		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o7.tm	Method	TBLASTX:Maize
Start	1101	End	1527
GI	none	Score	108
Exons	1101..1268, 1236..1526, 1276..1527		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o3.ts	Method	TBLASTX:Soybean
Start	1443	End	1823
GI	none	Score	134
Exons	1443..1538, 1581..1766, 1597..1740, 1779..1823		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o6.tm	Method	TBLASTX:Maize
Start	8494	End	8683
GI	none	Score	252
Exons	8494..8682, 8522..8683		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o5.ts	Method	TBLASTX:Soybean
Start	8522	End	8683
GI	none	Score	210

Exons	8522..8683, 8527..8682		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o2.tm	Method	TBLASTX:Maize
Start	11435	End	11738
GI	none	Score	344
Exons	11435..11737, 11436..11738		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o4.ts	Method	TBLASTX:Soybean
Start	11736	End	11930
GI	none	Score	220
Exons	11736..11930, 11738..11824		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o1.tm	Method	TBLASTX:Maize
Start	11738	End	12520
GI	none	Score	281
Exons	11738..11914, 11739..11936, 11739..11924, 12002..12202, 12011..12436, 12012..12467, 12024..12437, 12476..12520		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o2.tc	Method	TBLASTX:Cress
Start	11886	End	12242
GI	none	Score	51
Exons	11886..11936, 11996..12241, 12015..12242		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o2.ts	Method	TBLASTX:Soybean
Start	12015	End	12242
GI	none	Score	260
Exons	12015..12242, 12026..12241		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o2.np	Method	AAT/NAP
Start	13294	End	13622
GI	7340716	Score	210
Exons	13294..13416, 13523..13622		
GI Descrip.	(AL162507) putative protein [Arabidopsis thaliana]		
Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o4.gs	Method	GENSCAN
Start	13301	End	13613

GI	none	Score	.71
Exons	13301..13416, 13523..13613		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o5.tm	Method	TBLASTX:Maize
Start	13304	End	13614
GI	none	Score	131
Exons	13304..13414, 13308..13415, 13485..13613, 13524..13613, 13525..13614		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110982	Strand	-
Start	13301	End	13622
Name	OJ991107_37.0421.C69.o3.tc	Method	TBLASTX:Cress
Start	13310	End	13614
GI	none	Score	91
Exons	13310..13414, 13314..13415, 13524..13610, 13525..13614		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110983	Strand	
Start	16670	End	18072
Name	OJ991107_37.0421.C69.o4.tm	Method	TBLASTX:Maize
Start	16670	End	18072
GI	none	Score	102
Exons	16670..16735, 16671..16736, 16671..16736, 16672..16737, 16917..17033, 16918..17046, 17151..17252, 17152..17253, 17152..17292, 17561..17722, 17562..17726, 17567..17728, 17571..17726, 17809..17856, 17809..17883, 17811..17885, 17974..18072, 17976..18059, 17981..18070		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110984	Strand	
Start	19348	End	21362
Name	OJ991107_37.0421.C69.o1.tc	Method	TBLASTX:Cress
Start	19348	End	21350
GI	none	Score	154
Exons	19348..19455, 19350..19454, 21008..21130, 21009..21215, 21011..21208, 21315..21350		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110984	Strand	
Start	19348	End	21362
Name	OJ991107_37.0421.C69.o3.tm	Method	TBLASTX:Maize
Start	19348	End	21215
GI	none	Score	165
Exons	19348..19458, 19350..19457, 20998..21198, 21009..21215, 21011..21205		

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110984	Strand	
Start	19348	End	21362
Name	OJ991107_37.0421.C69.o1.tw	Method	TBLASTX:Wheat
Start	19371	End	21215
GI	none	Score	117
Exons	19371..19454, 19375..19455, 21007..21204, 21008..21196,		

21009..21215, 21011..21205

Seq. No.	52602	Seq. ID	OJ991107_37.0421.C69
Gene No.	110984	Strand	
Start	19348	End	21362
Name	OJ991107_37.0421.C69.o1.ts	Method	TBLASTX:Soybean
Start	21038	End	21362
GI	none	Score	248
Exons	21038..21208, 21039..21209, 21039..21209, 21294..21356, 21300..21362		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110985	Strand	+
Start	1	End	365
Name	OJ991107_37.0421.C71.o1.gp	Method	AAT/GAP
Start	1	End	365
GI	3761483	Score	651
Exons	1..365		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110986	Strand	+
Start	1965	End	5110
Name	OJ991107_37.0421.C71.o1.gs	Method	GENSCAN
Start	1965	End	5110
GI	none	Score	.92
Exons	1965..3864, 4470..5110		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110986	Strand	+
Start	1965	End	5110
Name	OJ991107_37.0421.C71.o1.np	Method	AAT/NAP
Start	2121	End	5110
GI	6580156	Score	1884
Exons	2121..3482, 3528..3864, 4470..5110		
GI Descrip.	(AL132968) putative protein [Arabidopsis thaliana]		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o2.np	Method	AAT/NAP
Start	1	End	8710
GI	4883421	Score	560
Exons	1..38, 656..730, 5782..5977, 6078..6220, 6256..6437, 8669..8710		
GI Descrip.	(AL031986) DNA-directed RNA polymerase (EC 2.7.7.6) II largest chain [Arabidopsis thaliana]		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o2.tc	Method	TBLASTX:Cress
Start	2364	End	4825
GI	none	Score	197
Exons	2364..2810, 2378..2677, 2403..2822, 2406..2819, 2415..2738, 2436..2741, 2436..2819, 2436..2822, 2436..2816, 2439..2810, 2534..2812, 2570..2737, 2673..2741, 2694..2816, 2871..3095, 2874..3092, 2880..3128, 2880..3107, 2880..3074, 2880..3071, 2883..3095, 2883..3092, 2892..3092, 2918..3064, 2943..3125,		

3099..3149, 3165..3209, 4622..4825

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o2.ts	Method	TBLASTX:Soybean
Start	2391	End	4804
GI	none	Score	114

Exons 2391..2630, 2403..2771, 2406..2669, 2412..2822, 2439..2816, 2442..2813, 2565..2813, 2568..2825, 2622..2813, 2736..2813, 2877..3083, 2880..3092, 2880..3092, 2883..3161, 2955..3107, 2997..3149, 4490..4558, 4565..4654, 4703..4804

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o3.tm	Method	TBLASTX:Maize
Start	2403	End	3125
GI	none	Score	215

Exons 2403..2813, 2436..2810, 2436..2792, 2475..2825, 2865..3092, 2882..3013, 2883..3095, 2892..3092, 2943..3125

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o1.ts	Method	TBLASTX:Soybean
Start	3548	End	3845
GI	none	Score	419

Exons 3548..3844, 3549..3845

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o1.tc	Method	TBLASTX:Cress
Start	3549	End	4618
GI	none	Score	440

Exons 3549..3869, 3551..3859, 4468..4608, 4469..4618

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o2.tm	Method	TBLASTX:Maize
Start	3671	End	4549
GI	none	Score	70

Exons 3671..3733, 3671..3859, 3672..3869, 4447..4548, 4462..4542, 4469..4549

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o1.tm	Method	TBLASTX:Maize
Start	4801	End	5029
GI	none	Score	186

Exons 4801..4869, 4802..4930, 4817..4930, 4821..4934, 4916..4981, 4917..4982, 4919..5029, 4975..5025

Seq. No. 52603 Seq. ID OJ991107_37.0421.C71

Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o3.ts	Method	TBLASTX:Soybean
Start	4814	End	5029
GI	none	Score	157
Exons	4814..4903, 4814..4903, 4922..5029		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o2.gs	Method	GENSCAN
Start	6319	End	10920
GI	none	Score	.52
Exons	6319..6474, 7042..7847, 10831..10920		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o3.np	Method	AAT/NAP
Start	6928	End	7847
GI	5257262	Score	339
Exons	6928..7007, 7311..7847		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		

Seq. No.	52603	Seq. ID	OJ991107_37.0421.C71
Gene No.	110987	Strand	-
Start	1	End	11471
Name	OJ991107_37.0421.C71.o4.np	Method	AAT/NAP
Start	10776	End	11471
GI	5430752	Score	132
Exons	10776..11471		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110988	Strand	+
Start	1525	End	7000
Name	OJ991107_37.0421.C72.o2.gs	Method	GENSCAN
Start	1525	End	7000
GI	none	Score	.64
Exons	1525..1927, 2017..2159, 3294..3485, 3769..4084, 4104..4461, 6271..6578, 6696..6847, 6884..7000		

Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110988	Strand	+
Start	1525	End	7000
Name	OJ991107_37.0421.C72.o1.np	Method	AAT/NAP
Start	1822	End	3130
GI	5777617	Score	77
Exons	1822..1881, 3033..3130		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110988	Strand	+
Start	1525	End	7000
Name	OJ991107_37.0421.C72.o1.gp	Method	AAT/GAP
Start	5939	End	6099
GI	none	Score	196

Exons	5939..6099		
Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110989	Strand	-
Start	683	End	836
Name	OJ991107_37.0421.C72.o1.gs	Method	GENSCAN
Start	683	End	836
GI	none	Score	.7
Exons	683..836		
Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110990	Strand	-
Start	7119	End	8332
Name	OJ991107_37.0421.C72.o2.gp	Method	AAT/GAP
Start	7119	End	7844
GI	10494_1.R1084	Score	642
Exons	7119..7479, 7733..7844		
GI Descrip.	'5730046/ref\|NM_006632.1\|SLC17A3\| 1.0e-09 Homo sapiens solute carrier family 17 (sodium phosphate), member 3 (SLC17A3) mRNA >gi_2062691_gb_U90545_HSU90545 Human sodium phosphate transporter (NPT4) mRNA, complete cds'		
Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110990	Strand	-
Start	7119	End	8332
Name	OJ991107_37.0421.C72.o3.gp	Method	AAT/GAP
Start	7193	End	8092
GI	none	Score	1128
Exons	7193..7479, 7733..8092		
Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110990	Strand	-
Start	7119	End	8332
Name	OJ991107_37.0421.C72.o4.gp	Method	AAT/GAP
Start	7724	End	8332
GI	10494_1.R1084	Score	323
Exons	7724..7797, 8044..8093, 8215..8332		
GI Descrip.	'5730046/ref\|NM_006632.1\|SLC17A3\| 1.0e-09 Homo sapiens solute carrier family 17 (sodium phosphate), member 3 (SLC17A3) mRNA >gi_2062691_gb_U90545_HSU90545 Human sodium phosphate transporter (NPT4) mRNA, complete cds'		
Seq. No.	52604	Seq. ID	OJ991107_37.0421.C72
Gene No.	110991	Strand	-
Start	8629	End	9179
Name	OJ991107_37.0421.C72.o3.gs	Method	GENSCAN
Start	8629	End	9179
GI	none	Score	.55
Exons	8629..8688, 8802..8934, 9115..9179		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110992	Strand	+
Start	324	End	4127
Name	OJ991107_37.0421.C73.o1.gs	Method	GENSCAN
Start	324	End	1330
GI	none	Score	.55
Exons	324..1071, 1182..1330		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110992	Strand	+
Start	324	End	4127
Name	OJ991107_37.0421.C73.o1.np	Method	AAT/NAP
Start	324	End	4127
GI	6630696	Score	6574
Exons	324..4127		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110992	Strand	+
Start	324	End	4127
Name	OJ991107_37.0421.C73.o1.gp	Method	AAT/GAP
Start	366	End	1256
GI	101595_1.R1084	Score	1455
Exons	366..1066, 1182..1256		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110993	Strand	+
Start	13660	End	18168
Name	OJ991107_37.0421.C73.o2.np	Method	AAT/NAP
Start	13651	End	18165
GI	4586053	Score	1933
Exons	13651..13749, 13866..14235, 16931..18165		
GI Descrip.	(AC007020) putative laccase (diphenol oxidase) [Arabidopsis thaliana]		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110993	Strand	+
Start	13660	End	18168
Name	OJ991107_37.0421.C73.o5.gs	Method	GENSCAN
Start	13660	End	15812
GI	none	Score	.73
Exons	13660..13749, 13866..14268, 15700..15812		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110993	Strand	+
Start	13660	End	18168
Name	OJ991107_37.0421.C73.o6.gs	Method	GENSCAN
Start	16972	End	18168
GI	none	Score	.97
Exons	16972..18168		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110994	Strand	-
Start	7599	End	8180
Name	OJ991107_37.0421.C73.o2.gp	Method	AAT/GAP
Start	7599	End	8180
GI	uC-osf1M202091b10b1	Score	936
Exons	7599..7731, 7832..8180		
GI Descrip.	'4760544/dbj\|AB019492.1\|AB019492 5.0e-23 Homo sapiens IDN4-GGTR14 mRNA, partial cds'		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110995	Strand	-
Start	10771	End	13108
Name	OJ991107_37.0421.C73.o4.gs	Method	GENSCAN
Start	10771	End	13108
GI	none	Score	.53
Exons	10771..10851, 11669..11816, 13089..13108		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110996	Strand	-
Start	15002	End	15135
Name	OJ991107_37.0421.C73.o3.gp	Method	AAT/GAP
Start	15002	End	15135
GI	LIB3474-009-P1-K1-F11	Score	229
Exons	15002..15135		
GI Descrip.	'4455244/emb\|CAB36743.1\| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o4.tw	Method	TBLASTX:Wheat
Start	218	End	615
GI	none	Score	128
Exons	218..316, 219..353, 330..614, 404..595, 433..615		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o8.tm	Method	TBLASTX:Maize
Start	366	End	674
GI	none	Score	318
Exons	366..674, 413..595, 466..609, 495..671		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o3.tm	Method	TBLASTX:Maize
Start	1158	End	1567
GI	none	Score	385
Exons	1158..1469, 1178..1474, 1181..1471, 1475..1567, 1482..1565		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o10.ts	Method	TBLASTX:Soybean
Start	1515	End	1895
GI	none	Score	88
Exons	1515..1664, 1647..1895		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o9.tm	Method	TBLASTX:Maize
Start	1653	End	2117
GI	none	Score	313

Exons	1653..2117, 1892..2110		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o6.tw	Method	TBLASTX:Wheat
Start	1760	End	1960
GI	none	Score	278
Exons	1760..1960, 1761..1958, 1768..1959		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o5.ts	Method	TBLASTX:Soybean
Start	1905	End	2303
GI	none	Score	207
Exons	1905..2126, 1907..2122, 2130..2303		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o1.tw	Method	TBLASTX:Wheat
Start	1961	End	2708
GI	none	Score	255
Exons	1961..2368, 1961..2458, 1968..2708, 2526..2708		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o4.ts	Method	TBLASTX:Soybean
Start	2628	End	3092
GI	5509260	Score	373
Exons	2628..3092, 2723..2884		
GI Descrip.	-		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o3.tc	Method	TBLASTX:Cress
Start	2715	End	2981
GI	none	Score	283
Exons	2715..2972, 2721..2981		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o6.tm	Method	TBLASTX:Maize
Start	2762	End	3227
GI	none	Score	344
Exons	2762..2893, 2763..3227, 2898..2978, 3014..3124		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o3.tw	Method	TBLASTX:Wheat
Start	2763	End	3308
GI	none	Score	301

Exons	2763..3107, 3102..3308		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o7.ts	Method	TBLASTX:Soybean
Start	3161	End	3509
GI	none	Score	141
Exons	3161..3325, 3162..3320, 3320..3508, 3321..3509		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o5.tm	Method	TBLASTX:Maize
Start	3288	End	3660
GI	none	Score	357
Exons	3288..3659, 3311..3658, 3412..3660		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o2.tw	Method	TBLASTX:Wheat
Start	3516	End	3991
GI	none	Score	105
Exons	3516..3590, 3517..3576, 3521..3589, 3605..3991, 3606..3989, 3607..3990		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o8.ts	Method	TBLASTX:Soybean
Start	3522	End	3863
GI	none	Score	97
Exons	3522..3635, 3557..3625, 3654..3863, 3659..3784		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o11.tm	Method	TBLASTX:Maize
Start	4001	End	4324
GI	none	Score	114
Exons	4001..4090, 4002..4091, 4003..4092, 4003..4092, 4130..4273, 4136..4225, 4140..4232, 4141..4233, 4202..4324, 4299..4322		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o1.ts	Method	TBLASTX:Soybean
Start	13856	End	17049
GI	none	Score	546
Exons	13856..14227, 13866..14228, 16936..17049, 16956..17048		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o1.tc	Method	TBLASTX:Cress
Start	13865	End	14174

GI	none	Score	430
Exons	13865..14173, 13866..14174		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o10.tm	Method	TBLASTX:Maize
Start	13941	End	14122
GI	none	Score	244
Exons	13941..14120, 13946..14122		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o5.tw	Method	TBLASTX:Wheat
Start	14019	End	17001
GI	none	Score	280
Exons	14019..14225, 14021..14227, 16936..17001		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o4.tm	Method	TBLASTX:Maize
Start	14126	End	17268
GI	none	Score	173
Exons	14126..14212, 14127..14243, 16936..17268, 16956..17267		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o7.tc	Method	TBLASTX:Cress
Start	16936	End	17126
GI	none	Score	208
Exons	16936..17118, 16956..17126		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o7.tw	Method	TBLASTX:Wheat
Start	17007	End	17193
GI	none	Score	224
Exons	17007..17192, 17008..17193		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o9.ts	Method	TBLASTX:Soybean
Start	17055	End	17301
GI	none	Score	220
Exons	17055..17300, 17056..17301		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o2.tc	Method	TBLASTX:Cress
Start	17128	End	17844
GI	none	Score	165

Exons	17128..17301, 17130..17300, 17346..17378, 17347..17385, 17524..17724, 17526..17723, 17691..17744, 17692..17745, 17752..17844, 17754..17843		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o2.ts	Method	TBLASTX:Soybean
Start	17496	End	18096
GI	none	Score	67
Exons	17496..17549, 17497..17583, 17586..17723, 17587..17745, 17787..18095, 17788..18096		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o2.tm	Method	TBLASTX:Maize
Start	17733	End	18165
GI	none	Score	513
Exons	17733..18098, 17734..18141, 18019..18165		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o6.tc	Method	TBLASTX:Cress
Start	17872	End	18135
GI	none	Score	235
Exons	17872..18135, 17910..18092		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o4.gp	Method	AAT/GAP
Start	18800	End	19860
GI	30230_1.R1084	Score	1257
Exons	18800..19370, 19736..19860		
GI Descrip.	'3482919 2.0e-09 (AC003970) Putative protein kinase [Arabidopsis thaliana]'		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o7.tm	Method	TBLASTX:Maize
Start	19224	End	20400
GI	none	Score	109
Exons	19224..19373, 19226..19372, 19734..19946, 19736..19981, 19736..19945, 19794..19946, 20048..20218, 20069..20221, 20086..20220, 20088..20225, 20339..20398, 20359..20400		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o7.gs	Method	GENSCAN
Start	19227	End	21784
GI	none	Score	.6
Exons	19227..19370, 19736..19945, 20090..20219, 20360..20530, 20921..20954, 21127..21231, 21425..21784		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o3.np	Method	AAT/NAP
Start	19269	End	21997
GI	4512659	Score	1136
Exons	19269..19362, 19739..19945, 20090..20219, 20360..20530, 20921..21043, 21127..21231, 21344..21997		
GI Descrip.	(AC006931) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o6.ts	Method	TBLASTX:Soybean
Start	19751	End	20532
GI	none	Score	212
Exons	19751..19945, 19752..19946, 19862..19981, 20048..20218, 20073..20216, 20074..20217, 20339..20524, 20354..20521, 20359..20532		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o8.tc	Method	TBLASTX:Cress
Start	19751	End	19943
GI	none	Score	114
Exons	19751..19942, 19785..19943		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o5.gp	Method	AAT/GAP
Start	19859	End	21395
GI	26479_1.R1084	Score	1166
Exons	19859..19945, 20090..20219, 20360..20530, 20921..21043, 21127..21231, 21344..21395		
GI Descrip.	'4512659/gb\|AAD21713.1\| 2.0e-94 (AC006931) putative protein kinase [Arabidopsis thaliana] >gi_4544465_gb_AAD22372.1_AC006580_4 (AC006580) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o8.tw	Method	TBLASTX:Wheat
Start	20045	End	20469
GI	none	Score	57
Exons	20045..20158, 20076..20159, 20135..20218, 20336..20383, 20357..20431, 20359..20469		

Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o5.tc	Method	TBLASTX:Cress
Start	20072	End	20499
GI	none	Score	107

Exons	20072..20218, 20073..20213, 20336..20383, 20413..20499		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o1.tm	Method	TBLASTX:Maize
Start	20454	End	21866
GI	none	Score	80
Exons	20454..20528, 20454..20528, 20455..20529, 20455..20532, 20919..21044, 20920..21045, 20920..21045, 21108..21230, 21114..21230, 21133..21231, 21163..21231, 21343..21573, 21351..21572, 21579..21764, 21718..21765, 21763..21864, 21768..21866		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o3.ts	Method	TBLASTX:Soybean
Start	20941	End	21579
GI	none	Score	53
Exons	20941..21045, 20941..21045, 20987..21064, 21108..21233, 21114..21230, 21127..21234, 21351..21560, 21358..21579		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o4.tc	Method	TBLASTX:Cress
Start	20998	End	21571
GI	none	Score	105
Exons	20998..21048, 21145..21231, 21147..21230, 21346..21522, 21351..21527, 21356..21571		
Seq. No.	52605	Seq. ID	OJ991107_37.0421.C73
Gene No.	110997	Strand	-
Start	19227	End	22029
Name	OJ991107_37.0421.C73.o6.gp	Method	AAT/GAP
Start	21516	End	22029
GI	none	Score	916
Exons	21516..22029		
Seq. No.	52606	Seq. ID	OJ991107_37.0421.C74
Gene No.	110998	Strand	-
Start	695	End	6315
Name	OJ991107_37.0421.C74.o1.gs	Method	GENSCAN
Start	695	End	6315
GI	none	Score	.59
Exons	695..941, 1113..1196, 1317..1504, 1739..1895, 2021..2221, 2828..2905, 3637..3671, 3887..4030, 4074..4305, 5361..5542, 5940..6026, 6091..6315		
Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	110999	Strand	+
Start	60	End	5628
Name	OJ991107_37.0421.C75.o1.gs	Method	GENSCAN
Start	60	End	5628
GI	none	Score	.69
Exons	60..559, 1829..2132, 2493..2670, 4286..4341, 5512..5628		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o2.gs	Method	GENSCAN
Start	7537	End	10830
GI	none	Score	.95
Exons	7537..7600, 8406..8549, 9023..9705, 10165..10293, 10605..10709, 10792..10830		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.np	Method	AAT/NAP
Start	9070	End	11910
GI	7327831	Score	1195
Exons	9070..9705, 10165..10279, 10582..10723, 10801..10963, 11117..11313, 11394..11688, 11771..11910		
GI Descrip.	(AL161946) putative protein [Arabidopsis thaliana]		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o3.tm	Method	TBLASTX:Maize
Start	9070	End	9234
GI	none	Score	41
Exons	9070..9102, 9091..9234, 9177..9224		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.ts	Method	TBLASTX:Soybean
Start	9178	End	11652
GI	none	Score	51
Exons	9178..9237, 9304..9324, 9382..9699, 9451..9621, 9543..9629, 11392..11652		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.tm	Method	TBLASTX:Maize
Start	9454	End	11691
GI	none	Score	150
Exons	9454..9633, 9502..9660, 9517..9693, 9517..9648, 9520..9708, 10829..11035, 10832..11134, 10865..11125, 10868..11011, 10973..11134, 10985..11131, 11192..11308, 11195..11314, 11204..11308, 11204..11308, 11389..11691, 11401..11523, 11440..11667, 11509..11652		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.tc	Method	TBLASTX:Cress
Start	9502	End	11640
GI	none	Score	85
Exons	9502..9696, 9520..9669, 10774..11253, 10805..11134, 10868..11095, 11189..11254, 11204..11308, 11449..11640		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.tw	Method	TBLASTX:Wheat
Start	9520	End	11691
GI	none	Score	87
Exons	9520..9657, 9520..9708, 10868..10960, 10907..11038, 10945..10965, 10985..11125, 11198..11272, 11389..11691		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o2.ts	Method	TBLASTX:Soybean
Start	10906	End	11314
GI	none	Score	163
Exons	10906..11088, 10907..11134, 11195..11314, 11195..11293		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o1.gp	Method	AAT/GAP
Start	11195	End	11910
GI	3162_1.R1084	Score	1060
Exons	11195..11313, 11394..11688, 11771..11910		
GI Descrip.	'5919219/gb\|AAD56248.1\|AF186273_1 4.0e-24 (AF186273) leucine-rich repeats containing F-box protein FBL3 [Homo sapiens]'		

Seq. No.	52607	Seq. ID	OJ991107_37.0421.C75
Gene No.	111000	Strand	+
Start	7537	End	11910
Name	OJ991107_37.0421.C75.o2.tm	Method	TBLASTX:Maize
Start	11767	End	11908
GI	none	Score	137
Exons	11767..11904, 11770..11907, 11783..11908		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111001	Strand	+
Start	190	End	6244
Name	OJ991107_36.0421.C4.o1.gs	Method	GENSCAN
Start	190	End	6244
GI	none	Score	.43
Exons	190..238, 1571..1653, 1784..1897, 2994..3037, 5725..5911, 6134..6244		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o2.gs	Method	GENSCAN
Start	7525	End	9411
GI	none	Score	.54
Exons	7525..9411		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552

Name	OJ991107_36.0421.C4.o2.np	Method	AAT/NAP
Start	7534	End	8598
GI	7434285	Score	296
Exons	7534..8403, 8452..8598		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F8D20.110 - Arabidopsis thaliana (fragment) gi\|3367578\|emb\|CAA20030.1\| (AL031135) protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o1.np	Method	AAT/NAP
Start	7547	End	9552
GI	3549626	Score	486
Exons	7547..8448, 9496..9552		
GI Descrip.	(AJ009696) wall-associated kinase 1 [Arabidopsis thaliana]		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	7597	End	8193
GI	none	Score	463
Exons	7597..8193, 7605..7820, 7820..7834, 7866..8183		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	7602	End	9342
GI	none	Score	81
Exons	7602..7688, 7609..7683, 7650..7817, 7666..7818, 7882..8187, 7962..8186, 8188..8376, 8559..8741, 8560..8781, 8836..8943, 9061..9120, 9241..9342		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	7605	End	9336
GI	none	Score	68
Exons	7605..7682, 7609..7683, 7696..7818, 7710..7814, 7742..7834, 7885..8193, 7906..8154, 7947..8171, 8224..8415, 8653..8781, 8872..8943, 9061..9120, 9241..9336		

Seq. No.	52608	Seq. ID	OJ991107_36.0421.C4
Gene No.	111002	Strand	+
Start	7525	End	9552
Name	OJ991107_36.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	7882	End	8193
GI	none	Score	209
Exons	7882..8193		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111003	Strand	+
Start	1169	End	1592

Name	OJ991107_36.0421.C5.o2.gs	Method	GENSCAN
Start	1169	End	1592
GI	none	Score	.94
Exons	1169..1275, 1352..1592		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111004	Strand	+
Start	4822	End	8964
Name	OJ991107_36.0421.C5.o3.gs	Method	GENSCAN
Start	4822	End	8964
GI	none	Score	.61
Exons	4822..4980, 5631..5977, 6488..6689, 7125..7220, 7888..7959, 8092..8187, 8908..8964		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111004	Strand	+
Start	4822	End	8964
Name	OJ991107_36.0421.C5.o3.np	Method	AAT/NAP
Start	4822	End	8193
GI	6648169	Score	579
Exons	4822..4995, 5628..5728, 5780..5977, 6455..6689, 7125..7220, 7888..7959, 8092..8193		
GI Descrip.	(AC010926) unknown protein [Arabidopsis thaliana]		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111005	Strand	+
Start	10617	End	11961
Name	OJ991107_36.0421.C5.o4.np	Method	AAT/NAP
Start	10617	End	11961
GI	6630699	Score	92
Exons	10617..10709, 11884..11961		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111006	Strand	+
Start	12098	End	12507
Name	OJ991107_36.0421.C5.o5.np	Method	AAT/NAP
Start	12098	End	12507
GI	6539570	Score	171
Exons	12098..12290, 12441..12507		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111007	Strand	-
Start	616	End	3365
Name	OJ991107_36.0421.C5.o1.np	Method	AAT/NAP
Start	616	End	3365
GI	6648169	Score	61
Exons	616..670, 2314..2455, 3246..3365		
GI Descrip.	(AC010926) unknown protein [Arabidopsis thaliana]		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111008	Strand	-
Start	10563	End	11795
Name	OJ991107_36.0421.C5.o4.gs	Method	GENSCAN

Start	10563	End	11795
GI	none	Score	.63
Exons	10563..10796, 11652..11795		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111009	Strand	-
Start	12884	End	13742
Name	OJ991107_36.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	6552	End	7974
GI	none	Score	215
Exons	6552..6698, 6554..6688, 6559..6693, 7124..7231, 7125..7238, 7131..7238, 7871..7957, 7871..7948, 7887..7958, 7888..7974		

Seq. No.	52609	Seq. ID	OJ991107_36.0421.C5
Gene No.	111009	Strand	-
Start	12884	End	13742
Name	OJ991107_36.0421.C5.o5.gs	Method	GENSCAN
Start	12884	End	13742
GI	none	Score	.75
Exons	12884..13093, 13296..13742		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111010	Strand	+
Start	987	End	4914
Name	OJ991107_36.0421.C6.o1.gs	Method	GENSCAN
Start	987	End	4914
GI	none	Score	.82
Exons	987..1130, 1522..1771, 2286..2459, 2614..2726, 3062..3216, 3322..3394, 3561..3685, 3798..4072, 4239..4266, 4318..4914		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111010	Strand	+
Start	987	End	4914
Name	OJ991107_36.0421.C6.o2.np	Method	AAT/NAP
Start	3689	End	4911
GI	6721561	Score	1172
Exons	3689..3944, 4015..4072, 4146..4911		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6815086\|dbj\|BAA90372.1\| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111011	Strand	-
Start	1	End	1213
Name	OJ991107_36.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	1213
GI	7523517	Score	354
Exons	1..42, 725..769, 914..1213		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111012	Strand	-
Start	5003	End	13813
Name	OJ991107_36.0421.C6.o2.gs	Method	GENSCAN
Start	5003	End	13813

GI	none	Score	.57
Exons	5003..5161, 5278..5469, 5480..5704, 6149..6330, 6460..6981, 6983..7376, 7472..8231, 8276..9543, 9631..10011, 10295..10466, 10788..11013, 11071..11209, 11254..11944, 12145..12611, 12618..12796, 13122..13298, 13741..13813		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111012	Strand	-
Start	5003	End	13813
Name	OJ991107_36.0421.C6.o3.np	Method	AAT/NAP
Start	6410	End	9534
GI	5902445	Score	2822
Exons	6410..7169, 7220..7714, 7754..9534		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111012	Strand	-
Start	5003	End	13813
Name	OJ991107_36.0421.C6.o4.np	Method	AAT/NAP
Start	9601	End	13523
GI	5902444	Score	958
Exons	9601..11261, 11408..11605, 13496..13523		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111012	Strand	-
Start	5003	End	13813
Name	OJ991107_36.0421.C6.o5.np	Method	AAT/NAP
Start	11143	End	13238
GI	7523517	Score	278
Exons	11143..11171, 12742..12796, 12941..13238		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o3.tw	Method	TBLASTX:Wheat
Start	6419	End	7034
GI	none	Score	68
Exons	6419..6550, 6432..6545, 6575..6961, 6960..7034		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o7.tm	Method	TBLASTX:Maize
Start	6455	End	6721
GI	none	Score	52
Exons	6455..6538, 6486..6545, 6539..6721, 6540..6590		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o4.tw	Method	TBLASTX:Wheat
Start	7161	End	7594
GI	none	Score	161
Exons	7161..7211, 7215..7586, 7217..7594		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	7289	End	7594
GI	none	Score	167
Exons	7289..7594, 7290..7577		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o6.tw	Method	TBLASTX:Wheat
Start	8066	End	8472
GI	none	Score	42
Exons	8066..8224, 8066..8239, 8247..8291, 8252..8296, 8302..8472		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	8563	End	8988
GI	none	Score	93
Exons	8563..8988, 8804..8944		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o2.tw	Method	TBLASTX:Wheat
Start	8618	End	9042
GI	none	Score	260
Exons	8618..8944, 8620..9042, 8650..9039		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	8716	End	9072
GI	none	Score	128
Exons	8716..9072, 8717..8944, 8955..9050		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	9106	End	9459
GI	none	Score	171
Exons	9106..9165, 9145..9459, 9155..9397		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	9145	End	9589
GI	none	Score	361
Exons	9145..9588, 9146..9589		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6

Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o3.ts	Method	TBLASTX:Soybean
Start	9184	End	9549
GI	none	Score	114
Exons	9184..9318, 9334..9549		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o5.tw	Method	TBLASTX:Wheat
Start	9781	End	10234
GI	none	Score	118
Exons	9781..10017, 9791..10015, 10106..10234, 10110..10226		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o7.tw	Method	TBLASTX:Wheat
Start	10865	End	11305
GI	none	Score	49
Exons	10865..11140, 10904..11056, 10914..11135, 11096..11212, 11105..11188, 11109..11201, 11213..11263, 11249..11305		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o6.np	Method	AAT/NAP
Start	17770	End	21394
GI	4680199	Score	627
Exons	17770..17814, 19155..19301, 19473..20283, 20697..21000, 21072..21292, 21354..21394		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o4.tm	Method	TBLASTX:Maize
Start	19385	End	19832
GI	none	Score	55
Exons	19385..19588, 19610..19831, 19631..19750, 19773..19832		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	19448	End	19840
GI	none	Score	244
Exons	19448..19513, 19499..19840		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o8.tw	Method	TBLASTX:Wheat
Start	19586	End	19951
GI	none	Score	213
Exons	19586..19951		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o5.tm	Method	TBLASTX:Maize
Start	19835	End	20074
GI	none	Score	107
Exons	19835..19912, 19892..20074, 19896..20063		

Seq. No.	52610	Seq. ID	OJ991107_36.0421.C6
Gene No.	111013	Strand	-
Start	17770	End	21394
Name	OJ991107_36.0421.C6.o6.tm	Method	TBLASTX:Maize
Start	20678	End	21088
GI	none	Score	64
Exons	20678..20836, 20678..20869, 20700..20864, 20879..21088		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111014	Strand	+
Start	648	End	3327
Name	OJ991107_36.0421.C7.o3.np	Method	AAT/NAP
Start	648	End	2391
GI	423988	Score	467
Exons	648..762, 1373..2391		
GI Descrip.	serine/threonine kinase homolog PRO25 - Arabidopsis thaliana gi\|166813 (L04999) serine threonine kinase [Arabidopsis thaliana]		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111014	Strand	+
Start	648	End	3327
Name	OJ991107_36.0421.C7.o2.gs	Method	GENSCAN
Start	1294	End	3327
GI	none	Score	.87
Exons	1294..3327		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111014	Strand	+
Start	648	End	3327
Name	OJ991107_36.0421.C7.o1.np	Method	AAT/NAP
Start	1374	End	2391
GI	4826399	Score	498
Exons	1374..2391		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111014	Strand	+
Start	648	End	3327
Name	OJ991107_36.0421.C7.o2.np	Method	AAT/NAP
Start	1452	End	1980
GI	7243648	Score	441
Exons	1452..1980		
GI Descrip.	(AF230502) serine/threonine protein kinase [Oryza sativa subsp. japonica]		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111015	Strand	+

Start	4703	End	16317
Name	OJ991107_36.0421.C7.o3.gs	Method	GENSCAN
Start	4703	End	16317
GI	none	Score	.73
Exons	4703..4829, 4918..5041, 5885..6007, 7106..7206, 7679..7696, 7797..7986, 11491..11758, 12509..12605, 13681..13747, 14242..14269, 15164..15304, 15387..15531, 15914..16317		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111016	Strand	-
Start	82	End	783
Name	OJ991107_36.0421.C7.o1.gs	Method	GENSCAN
Start	82	End	783
GI	none	Score	.74
Exons	82..254, 273..371, 434..573, 689..783		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	1420	End	3042
GI	none	Score	513
Exons	1420..2052, 1458..2000, 2539..2619, 2869..3042		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	1426	End	3048
GI	none	Score	68
Exons	1426..1506, 1519..2016, 1533..1748, 1770..1994, 2077..2220, 2092..2244, 2428..2619, 2430..2618, 2776..2847, 2875..3048		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	1426	End	3042
GI	none	Score	68
Exons	1426..1506, 1519..1671, 1524..1670, 1702..2010, 1771..1995, 1785..2000, 2065..2220, 2428..2619, 2740..2826, 2869..3042		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	1620	End	3081
GI	none	Score	48
Exons	1620..1667, 1621..1692, 1696..1881, 1770..1853, 1893..2000, 1894..2001, 2959..3081		

Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	9040	End	9392
GI	none	Score	48

Exons	9040..9096, 9052..9099, 9104..9124, 9125..9205, 9134..9226, 9151..9228, 9179..9262, 9216..9269, 9217..9261, 9309..9392, 9310..9390, 9324..9392		
Seq. No.	52611	Seq. ID	OJ991107_36.0421.C7
Gene No.	111017	Strand	-
Start	10139	End	16837
Name	OJ991107_36.0421.C7.o4.np	Method	AAT/NAP
Start	10139	End	16837
GI	5734709	Score	144
Exons	10139..10187, 12538..12618, 15484..15699, 16185..16267, 16395..16837		
GI Descrip.	(AC008075) Contains PF\|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		
Seq. No.	52612	Seq. ID	OJ991107_36.0421.C13
Gene No.	111018	Strand	-
Start	1	End	1161
Name	OJ991107_36.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	1161
GI	7340909	Score	155
Exons	1..243, 1061..1161		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111019	Strand	+
Start	300	End	1377
Name	OJ991107_36.0421.C16.o1.gp	Method	AAT/GAP
Start	300	End	1044
GI	none	Score	1374
Exons	300..1044		
Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111019	Strand	+
Start	300	End	1377
Name	OJ991107_36.0421.C16.o1.gs	Method	GENSCAN
Start	669	End	1377
GI	none	Score	.4
Exons	669..785, 1030..1377		
Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o1.np	Method	AAT/NAP
Start	5	End	8229
GI	2739355	Score	1731
Exons	5..33, 630..742, 2720..2839, 3384..3518, 3869..3946, 4031..4129, 4228..4341, 4448..4603, 5160..5288, 5355..5426, 5518..5660, 5729..5795, 5886..5957, 6259..6330, 6407..6528, 6901..7009, 7349..7467, 7551..7607, 7699..7794, 7959..8051, 8176..8229		
GI Descrip.	(AC003972) pNORF1 [Homo sapiens] gi\|3328175 (AF074016) nonsense-mediated mRNA decay trans-acting factor [Homo sapiens]		
Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o1.tm	Method	TBLASTX:Maize

Start	589	End	2006
GI	none	Score	83
Exons	589..774, 684..776, 688..777, 717..785, 864..899, 875..895, 954..1016, 989..1027, 1056..1091, 1062..1088, 1113..1214, 1113..1214, 1288..1410, 1291..1410, 1304..1417, 1326..1418, 1505..1642, 1507..1635, 1518..1646, 1798..1872, 1799..1873, 1937..2005, 1953..2006, 1959..2006		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	1163	End	4091
GI	none	Score	80
Exons	1163..1216, 1313..1411, 1323..1409, 1507..1605, 1520..1600, 1603..1635, 1800..1850, 1804..1851, 1955..2029, 1959..1991, 2102..2200, 2104..2226, 2263..2373, 2359..2457, 2360..2449, 2554..2673, 2564..2623, 2762..2839, 2766..2840, 3378..3521, 3382..3522, 3384..3521, 3863..3949, 3873..3947, 4028..4090, 4029..4091		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o2.gp	Method	AAT/GAP
Start	1578	End	4064
GI	7810_1.R1084	Score	1665
Exons	1578..1634, 1800..1871, 1955..2017, 2092..2463, 2561..2673, 2765..2839, 3384..3518, 3869..3946, 4031..4064		
GI Descrip.	'1944407/dbj\|BAA19664\| 1.0e-47 (D86988) KIAA0221 [Homo sapiens]'		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o2.gs	Method	GENSCAN
Start	1714	End	8226
GI	none	Score	.92
Exons	1714..1746, 1800..1871, 1955..2017, 2092..2462, 2559..2673, 2765..2839, 3384..3518, 3869..3946, 4228..4341, 4448..4603, 5160..5288, 5355..5426, 5518..5660, 5729..5795, 5886..5957, 6259..6330, 6407..6491, 6902..7009, 7349..7467, 7551..7601, 7699..7794, 7959..8051, 8176..8226		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o4.tm	Method	TBLASTX:Maize
Start	2090	End	2310
GI	none	Score	156
Exons	2090..2224, 2090..2224, 2091..2261, 2091..2258, 2262..2297, 2262..2297, 2263..2298, 2263..2310		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o3.tm	Method	TBLASTX:Maize
Start	2323	End	4099

GI	none	Score	45
Exons	2323..2355, 2323..2355, 2354..2455, 2355..2453, 2356..2463, 2357..2464, 2555..2632, 2557..2673, 2558..2674, 2560..2676, 2762..2839, 2766..2840, 2766..2891, 2767..2841, 3347..3409, 3382..3519, 3384..3521, 3864..3947, 3864..3947, 3868..3990, 3869..3949, 4028..4099, 4029..4091, 4030..4098		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o1.tc	Method	TBLASTX:Cress
Start	3378	End	4622
GI	none	Score	106
Exons	3378..3515, 3382..3522, 3384..3518, 3872..3949, 3873..3947, 3874..3951, 4028..4129, 4029..4130, 4055..4132, 4207..4341, 4232..4339, 4240..4344, 4445..4609, 4448..4606, 4452..4610, 4455..4622		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	4297	End	5604
GI	none	Score	61
Exons	4297..4341, 4307..4342, 4309..4344, 4445..4606, 4445..4609, 4452..4610, 4588..4704, 5157..5288, 5158..5289, 5166..5291, 5176..5289, 5352..5429, 5353..5430, 5354..5431, 5354..5431, 5509..5604, 5516..5602		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	5238	End	5924
GI	none	Score	48
Exons	5238..5291, 5256..5288, 5352..5429, 5353..5427, 5509..5661, 5516..5662, 5597..5662, 5727..5798, 5727..5795, 5883..5924, 5884..5922		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o3.gp	Method	AAT/GAP
Start	5574	End	6336
GI	LIB3475-002-P1-K2-G7	Score	536
Exons	5574..5660, 5729..5795, 5886..5957, 6259..6336		
GI Descrip.	'1885356 6.0e-34 (U59323) type 1 RNA helicase pNORF1 [Homo sapiens]'		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o2.tc	Method	TBLASTX:Cress
Start	5620	End	7003
GI	none	Score	57
Exons	5620..5661, 5627..5662, 5727..5798, 5727..5795, 5883..5960, 5883..5963, 5884..5964, 5884..5964, 6256..6333, 6257..6331,		

6395..6493, 6403..6504, 6405..6497, 6406..6498, 6407..6508, 6901..7002, 6908..7003, 6911..7003

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o3.ts	Method	TBLASTX:Soybean
Start	7387	End	7610
GI	none	Score	127
Exons	7387..7470, 7388..7468, 7391..7477, 7393..7473, 7548..7607, 7548..7610		

Seq. No.	52613	Seq. ID	OJ991107_36.0421.C16
Gene No.	111020	Strand	-
Start	5	End	8229
Name	OJ991107_36.0421.C16.o3.tc	Method	TBLASTX:Cress
Start	7702	End	8226
GI	none	Score	105
Exons	7702..7794, 7957..8052, 7959..8054, 7959..8051, 8170..8226		

Seq. No.	52614	Seq. ID	OJ991107_36.0421.C17
Gene No.	111021	Strand	+
Start	683	End	10920
Name	OJ991107_36.0421.C17.o1.gs	Method	GENSCAN
Start	683	End	8244
GI	none	Score	.59
Exons	683..1219, 1373..1455, 1537..1615, 3292..3525, 5561..5673, 7579..7633, 8162..8244		

Seq. No.	52614	Seq. ID	OJ991107_36.0421.C17
Gene No.	111021	Strand	+
Start	683	End	10920
Name	OJ991107_36.0421.C17.o1.np	Method	AAT/NAP
Start	751	End	10920
GI	7441831	Score	174
Exons	751..974, 2987..3149, 4123..4384, 9000..9464, 10903..10920		
GI Descrip.	extensin - soybean gi\|1165322\|gb\|AAB53156.1\| (U44838) extensin [Glycine max]		

Seq. No.	52614	Seq. ID	OJ991107_36.0421.C17
Gene No.	111021	Strand	+
Start	683	End	10920
Name	OJ991107_36.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	1153	End	1281
GI	none	Score	64
Exons	1153..1251, 1240..1281		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+
Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.gs	Method	GENSCAN
Start	2790	End	3116
GI	none	Score	.69
Exons	2790..3116		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+

Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.np	Method	AAT/NAP
Start	2790	End	3519
GI	2493046	Score	196
Exons	2790..3091, 3502..3519		
GI Descrip.	ATP SYNTHASE DELTA' CHAIN, MITOCHONDRIAL PRECURSOR gi\|82297\|pir\|\|A41740 H+-transporting ATP synthase (EC 3.6.1.34) delta' chain precursor - sweet potato gi\|217938\|dbj\|BAA01511\| (D10660) mitochondrial F1-ATPase delta subunit [Ipomoea batatas]		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+
Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	2855	End	3085
GI	none	Score	223
Exons	2855..3085, 2868..3071, 3011..3079		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+
Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	2867	End	3103
GI	none	Score	264
Exons	2867..3085, 2868..3071, 3014..3103		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+
Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	2874	End	3085
GI	4291618	Score	206
Exons	2874..3071, 2879..3085		
GI Descrip.	2493047/sp_Q41000_ATP4_PEA 2.0e-40 ATP SYNTHASE DELTA' CHAIN, MITOCHONDRIAL PRECURSOR >gi_294087 (L13320) F1-ATPase delta-prime subunit [Pisum sativum]		

Seq. No.	52615	Seq. ID	OJ991107_36.0421.C18
Gene No.	111022	Strand	+
Start	2790	End	3519
Name	OJ991107_36.0421.C18.o1.tc	Method	TBLASTX:Cress
Start	2924	End	3071
GI	none	Score	188
Exons	2924..3070, 2925..3071		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111023	Strand	+
Start	315	End	2249
Name	OJ991107_36.0421.C19.o1.gs	Method	GENSCAN
Start	315	End	2249
GI	none	Score	1
Exons	315..2249		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111024	Strand	+
Start	5218	End	7673
Name	OJ991107_36.0421.C19.o2.gs	Method	GENSCAN

Start	5218	End	7436
GI	none	Score	.9
Exons	5218..5490, 5555..5671, 7092..7436		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111024	Strand	+
Start	5218	End	7673
Name	OJ991107_36.0421.C19.o1.gp	Method	AAT/GAP
Start	5426	End	7673
GI	19698_1.R1084	Score	1191
Exons	5426..5490, 7092..7673		
GI Descrip.	'2493046/sp\|Q40089\|ATP4_IPOBA 6.0e-54 ATP SYNTHASE DELTA'' CHAIN, MITOCHONDRIAL PRECURSOR >gi_82297_pir__A41740 H+-transporting ATP synthase (EC 3.6.1.34) delta'' chain precursor - sweet potato >gi_217938_dbj_BAA01511_ (D10660) mitochondrial F1-ATPase delta subunit [Ipomoea batatas]'		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111025	Strand	+
Start	17034	End	17341
Name	OJ991107_36.0421.C19.o2.gp	Method	AAT/GAP
Start	17034	End	17341
GI	none	Score	572
Exons	17034..17341		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111026	Strand	-
Start	5456	End	11850
Name	OJ991107_36.0421.C19.o1.np	Method	AAT/NAP
Start	5456	End	11850
GI	6681335	Score	711
Exons	5456..5542, 8609..9016, 9757..9879, 10337..10478, 10623..10744, 11464..11850		
GI Descrip.	(AC015985) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o5.tm	Method	TBLASTX:Maize
Start	1494	End	1769
GI	none	Score	283
Exons	1494..1766, 1494..1769		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	1771	End	2184
GI	none	Score	547
Exons	1771..2184, 1773..2183		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o3.tc	Method	TBLASTX:Cress
Start	1779	End	2165
GI	none	Score	318

Exons	1779..2165, 1811..1966		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	5289	End	7668
GI	none	Score	241
Exons	5289..5489, 5302..5493, 5439..5507, 7045..7257, 7083..7466, 7089..7469, 7318..7467, 7493..7543, 7496..7519, 7523..7585, 7525..7590, 7606..7668		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	5295	End	7446
GI	none	Score	209
Exons	5295..5489, 5347..5493, 5433..5501, 7083..7436, 7089..7436, 7090..7437, 7324..7446, 7334..7444		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	5301	End	7436
GI	none	Score	205
Exons	5301..5465, 5302..5493, 7051..7254, 7071..7436, 7091..7432		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o1.tc	Method	TBLASTX:Cress
Start	5346	End	7436
GI	none	Score	188
Exons	5346..5474, 5347..5493, 7067..7432, 7071..7436		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o2.tw	Method	TBLASTX:Wheat
Start	8705	End	9837
GI	none	Score	128
Exons	8705..9031, 8856..9014, 9754..9837		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o4.tc	Method	TBLASTX:Cress
Start	8705	End	9882
GI	none	Score	114
Exons	8705..9031, 8784..9017, 9754..9882, 9755..9871		
Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o4.tm	Method	TBLASTX:Maize

Start	8705	End	10453
GI	none	Score	140
Exons	8705..9031, 8847..9017, 9752..9877, 9754..9879, 10355..10453		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o3.ts	Method	TBLASTX:Soybean
Start	8705	End	11655
GI	none	Score	151
Exons	8705..9031, 8769..9032, 9752..9880, 9754..9879, 9797..9883, 10352..10489, 10353..10484, 10664..10756, 10664..10747, 11551..11655		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o3.tm	Method	TBLASTX:Maize
Start	17072	End	20635
GI	none	Score	201
Exons	17072..17155, 17204..17230, 17344..17475, 17345..17473, 17863..18039, 17864..18034, 17868..18038, 18090..18221, 18111..18221, 19045..19272, 19046..19207, 19099..19269, 20551..20634, 20555..20635		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	17326	End	19266
GI	none	Score	144
Exons	17326..17475, 17327..17473, 17330..17497, 17822..18034, 17863..18039, 18090..18221, 18111..18221, 19046..19207, 19047..19235, 19075..19266, 19102..19248		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o2.tc	Method	TBLASTX:Cress
Start	17344	End	19251
GI	none	Score	151
Exons	17344..17475, 17345..17473, 17863..18039, 17864..18034, 18090..18221, 18111..18221, 18112..18222, 19043..19207, 19047..19235, 19047..19250, 19051..19251, 19099..19251		

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o3.gp	Method	AAT/GAP
Start	17346	End	19188
GI	LIB3432-034-P2-K1-H4	Score	990
Exons	17346..17474, 17868..18033, 18111..18220, 19048..19188		
GI Descrip.	'729882/sp\|P40229\|KC2C_ARATH 5.0e-99 CASEIN KINASE II BETA'' CHAIN (CK II) >gi_1076300_pir__S47968 casein kinase II (EC 2.7.1.-) beta chain CKB2 - Arabidopsis thaliana >gi_467975 (U03984) casein kinase II beta subunit CKB2 [Arabidopsis thaliana] >gi_2245122_emb_CAB10544.1_ (Z97343) casein kinase II		

beta chain CKB2 [Arabidopsis thaliana]'

Seq. No.	52616	Seq. ID	OJ991107_36.0421.C19
Gene No.	111027	Strand	-
Start	17346	End	20635
Name	OJ991107_36.0421.C19.o2.np	Method	AAT/NAP
Start	17347	End	20635
GI	729880	Score	921
Exons	17347..17474, 17868..18033, 18111..18220, 19048..19353, 20541..20635		
GI Descrip.	CASEIN KINASE II BETA CHAIN (CK II) gi\|1076299\|pir\|\|S47967 casein kinase II (EC 2.7.1.-) beta chain CKB1 - Arabidopsis thaliana gi\|468264 (L22563) casein kinase II beta subunit CKB1 [Arabidopsis thaliana]		

Seq. No.	52617	Seq. ID	OJ991107_36.0421.C20
Gene No.	111028	Strand	-
Start	490	End	2346
Name	OJ991107_36.0421.C20.o1.gs	Method	GENSCAN
Start	490	End	2346
GI	none	Score	.68
Exons	490..515, 2222..2346		

Seq. No.	52618	Seq. ID	OJ991107_36.0421.C21
Gene No.	111029	Strand	+
Start	44	End	414
Name	OJ991107_36.0421.C21.o1.gs	Method	GENSCAN
Start	44	End	414
GI	none	Score	.95
Exons	44..94, 241..414		

Seq. No.	52618	Seq. ID	OJ991107_36.0421.C21
Gene No.	111030	Strand	-
Start	1202	End	3266
Name	OJ991107_36.0421.C21.o1.gp	Method	AAT/GAP
Start	1163	End	3007
GI	1397_1.R1084	Score	1484
Exons	1163..1736, 1819..1872, 2312..2382, 2611..2649, 2950..3007		
GI Descrip.	'2245062/emb\|CAB10485.1\| 6.0e-46 (Z97342) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52618	Seq. ID	OJ991107_36.0421.C21
Gene No.	111030	Strand	-
Start	1202	End	3266
Name	OJ991107_36.0421.C21.o2.gs	Method	GENSCAN
Start	1202	End	3006
GI	none	Score	.5
Exons	1202..1285, 1707..1872, 2312..2382, 2611..2649, 2950..3006		

Seq. No.	52618	Seq. ID	OJ991107_36.0421.C21
Gene No.	111030	Strand	-
Start	1202	End	3266
Name	OJ991107_36.0421.C21.o1.np	Method	AAT/NAP
Start	1817	End	3266
GI	7485211	Score	230
Exons	1817..1872, 2312..2382, 2611..2649, 2950..3006, 3241..3266		
GI Descrip.	hypothetical protein - Arabidopsis thaliana		

gi|2245062|emb|CAB10485.1| (Z97342) hypothetical protein [Arabidopsis thaliana] gi|7268456|emb|CAB80976.1| (AL161545) hypothetical protein [Arabidopsis thaliana]

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111031	Strand	+
Start	5912	End	9814
Name	OJ991107_36.0421.C22.o2.gs	Method	GENSCAN
Start	5912	End	9486
GI	none	Score	.87
Exons	5912..6358, 7156..7295, 7689..7787, 8520..8676, 8754..8817, 9191..9486		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22		
Gene No.	111031	Strand	+		
Start	5912	End	9814		
Name	OJ991107_36.0421.C22.o2.gp	Method	AAT/GAP		
Start	6204	End	8295		
GI	30101_1.R1084	Score	1513		
Exons	6204..6358, 7156..7295, 7502..7601, 7689..7787, 7877..8295				
GI Descrip.	'5852170/emb	AL117265.1	OST17804 1.0e-149 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22		
Gene No.	111031	Strand	+		
Start	5912	End	9814		
Name	OJ991107_36.0421.C22.o3.gp	Method	AAT/GAP		
Start	8586	End	9814		
GI	11657_1.R1084	Score	1687		
Exons	8586..8676, 8754..8960, 9223..9814				
GI Descrip.	'6015437/dbj	AB008112.1	AB008112 3.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111032	Strand	-
Start	402	End	2893
Name	OJ991107_36.0421.C22.o2.ts	Method	TBLASTX:Soybean
Start	395	End	2803
GI	none	Score	61
Exons	395..493, 399..503, 1875..1946, 1882..1947, 2026..2109, 2026..2115, 2699..2803		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22		
Gene No.	111032	Strand	-		
Start	402	End	2893		
Name	OJ991107_36.0421.C22.o1.gp	Method	AAT/GAP		
Start	402	End	2747		
GI	1397_1.R1084	Score	709		
Exons	402..487, 1220..1286, 1512..1551, 1871..1947, 2027..2114, 2698..2747				
GI Descrip.	'2245062/emb	CAB10485.1	6.0e-46 (Z97342) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111032	Strand	-
Start	402	End	2893
Name	OJ991107_36.0421.C22.o1.gs	Method	GENSCAN

Start	1729	End	2893
GI	none	Score	.84
Exons	1729..1769, 1871..1947, 2027..2114, 2698..2893		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111032	Strand	-
Start	402	End	2893
Name	OJ991107_36.0421.C22.o1.tc	Method	TBLASTX:Cress
Start	1866	End	2750
GI	none	Score	89
Exons	1866..1943, 1867..1959, 1876..1947, 2016..2108, 2026..2115, 2027..2116, 2027..2116, 2699..2749, 2700..2750		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111033	Strand	
Start	6221	End	7296
Name	OJ991107_36.0421.C22.o4.ts	Method	TBLASTX:Soybean
Start	6221	End	7296
GI	none	Score	173
Exons	6221..6343, 7119..7295, 7147..7188, 7148..7195, 7188..7295, 7189..7296		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111034	Strand	
Start	7501	End	8169
Name	OJ991107_36.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	7501	End	8169
GI	none	Score	49
Exons	7501..7599, 7670..7792, 7675..7761, 7686..7790, 7874..8167, 7874..8014, 7876..8169		

Seq. No.	52619	Seq. ID	OJ991107_36.0421.C22
Gene No.	111035	Strand	
Start	9220	End	9611
Name	OJ991107_36.0421.C22.o3.ts	Method	TBLASTX:Soybean
Start	9220	End	9611
GI	none	Score	169
Exons	9220..9336, 9220..9354, 9240..9353, 9444..9482, 9445..9486, 9579..9611		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.np	Method	AAT/NAP
Start	1	End	2739
GI	4826399	Score	486
Exons	1..47, 754..1600, 2709..2739		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.tc	Method	TBLASTX:Cress
Start	1	End	1544
GI	none	Score	66
Exons	1..138, 185..211, 394..570, 394..555, 756..920, 960..1457, 969..1139, 982..1461, 1470..1544		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.gs	Method	GENSCAN
Start	86	End	1727
GI	none	Score	.55
Exons	86..648, 678..1727		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.ts	Method	TBLASTX:Soybean
Start	235	End	1556
GI	none	Score	333
Exons	235..318, 394..474, 960..1556, 970..1539, 1299..1556		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	394	End	1544
GI	none	Score	108
Exons	394..555, 747..911, 966..1457, 967..1191, 1228..1443, 1470..1544, 1477..1539		

Seq. No.	52620	Seq. ID	OJ991107_36.0421.C23
Gene No.	111036	Strand	-
Start	1	End	2739
Name	OJ991107_36.0421.C23.o1.tw	Method	TBLASTX:Wheat
Start	975	End	1356
GI	none	Score	73
Exons	975..1082, 976..1083, 1095..1280, 1123..1260, 1284..1355, 1309..1356		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111037	Strand	+
Start	2905	End	8826
Name	OJ991107_36.0421.C24.o2.gs	Method	GENSCAN
Start	2905	End	8790
GI	none	Score	.77
Exons	2905..2993, 4209..4511, 4637..6111, 6141..6704, 6795..7867, 7948..8289, 8392..8589, 8686..8790		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111037	Strand	+
Start	2905	End	8826
Name	OJ991107_36.0421.C24.o1.np	Method	AAT/NAP
Start	4692	End	8826
GI	6466937	Score	2101
Exons	4692..8826		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111038	Strand	-
Start	489	End	2553

Name	OJ991107_36.0421.C24.o1.gs	Method	GENSCAN
Start	489	End	2553
GI	none	Score	.71
Exons	489..645, 1634..2116, 2131..2303, 2320..2553		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111039	Strand	-
Start	10209	End	11233
Name	OJ991107_36.0421.C24.o3.gs	Method	GENSCAN
Start	10209	End	11233
GI	none	Score	.87
Exons	10209..10289, 10346..10453, 11066..11233		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111040	Strand	-
Start	12204	End	12727
Name	OJ991107_36.0421.C24.o4.gs	Method	GENSCAN
Start	12204	End	12727
GI	none	Score	.71
Exons	12204..12250, 12367..12492, 12564..12727		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o6.tm	Method	TBLASTX:Maize
Start	4689	End	4916
GI	none	Score	183
Exons	4689..4916, 4784..4915		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o1.tw	Method	TBLASTX:Wheat
Start	5997	End	6478
GI	none	Score	58
Exons	5997..6116, 6140..6478, 6155..6445		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o2.tm	Method	TBLASTX:Maize
Start	6048	End	6532
GI	none	Score	66
Exons	6048..6113, 6139..6528, 6140..6532		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o2.ts	Method	TBLASTX:Soybean
Start	6455	End	6800
GI	none	Score	190
Exons	6455..6685, 6460..6690, 6696..6800		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o4.tw	Method	TBLASTX:Wheat

Start	6482	End	6688
GI	none	Score	179
Exons	6482..6688		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o3.tm	Method	TBLASTX:Maize
Start	6608	End	7018
GI	none	Score	82
Exons	6608..6688, 6699..6869, 6732..6824, 6862..6978, 6863..7018		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o3.tw	Method	TBLASTX:Wheat
Start	6821	End	7246
GI	none	Score	231
Exons	6821..7246		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o5.tm	Method	TBLASTX:Maize
Start	7121	End	7414
GI	none	Score	185
Exons	7121..7246, 7132..7224, 7280..7414		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	7546	End	7888
GI	none	Score	315
Exons	7546..7785, 7565..7888		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	7556	End	8115
GI	none	Score	344
Exons	7556..7942, 7621..7776, 7831..7935, 7942..8115, 7950..8114		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o2.tw	Method	TBLASTX:Wheat
Start	7736	End	8316
GI	none	Score	148
Exons	7736..7942, 7942..8316		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o4.tm	Method	TBLASTX:Maize
Start	8410	End	8760

GI	none	Score	297
Exons	8410..8760, 8449..8754		

Seq. No.	52621	Seq. ID	OJ991107_36.0421.C24
Gene No.	111041	Strand	-
Start	12799	End	13117
Name	OJ991107_36.0421.C24.o2.np	Method	AAT/NAP
Start	12799	End	13117
GI	7228450	Score	174
Exons	12799..12912, 12998..13117		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o1.tm	Method	TBLASTX:Maize
Start	274	End	1197
GI	none	Score	142
Exons	274..459, 354..467, 449..622, 464..625, 611..730, 612..734, 750..1004, 760..876, 762..896, 988..1197		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o1.gs	Method	GENSCAN
Start	554	End	836
GI	none	Score	.53
Exons	554..573, 620..836		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o2.tw	Method	TBLASTX:Wheat
Start	571	End	977
GI	none	Score	83
Exons	571..615, 626..706, 627..734, 756..905, 851..916, 897..977		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o1.ts	Method	TBLASTX:Soybean
Start	846	End	1355
GI	none	Score	51
Exons	846..890, 963..992, 1021..1188, 1177..1278, 1320..1355		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o1.tw	Method	TBLASTX:Wheat
Start	982	End	1544
GI	none	Score	185
Exons	982..1278, 1314..1355, 1446..1544		

Seq. No.	52622	Seq. ID	OJ991107_36.0421.C25
Gene No.	111042	Strand	+
Start	554	End	1557
Name	OJ991107_36.0421.C25.o2.tm	Method	TBLASTX:Maize

Start	1198	End	1557
GI	none	Score	66
Exons	1198..1278, 1317..1412, 1317..1412, 1394..1555, 1401..1556, 1411..1557		

Seq. No.	52623	Seq. ID	OJ991107_36.0421.C26
Gene No.	111043	Strand	+
Start	1090	End	1572
Name	OJ991107_36.0421.C26.o1.np	Method	AAT/NAP
Start	1090	End	1572
GI	6539588	Score	87
Exons	1090..1281, 1540..1572		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111044	Strand	+
Start	740	End	1057
Name	OJ991117_16.0419.C1.o1.gp	Method	AAT/GAP
Start	740	End	1057
GI	3761191	Score	540
Exons	740..1057		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111045	Strand	+
Start	10118	End	11211
Name	OJ991117_16.0419.C1.o1.np	Method	AAT/NAP
Start	10118	End	11211
GI	6907086	Score	1031
Exons	10118..10871, 10929..11211		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111046	Strand	-
Start	743	End	907
Name	OJ991117_16.0419.C1.o1.gs	Method	GENSCAN
Start	743	End	907
GI	none	Score	.55
Exons	743..907		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111047	Strand	-
Start	1767	End	2116
Name	OJ991117_16.0419.C1.o2.gp	Method	AAT/GAP
Start	1767	End	2116
GI	4714166	Score	587
Exons	1767..2116		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111048	Strand	-
Start	2035	End	2332
Name	OJ991117_16.0419.C1.o2.gs	Method	GENSCAN
Start	2035	End	2332
GI	none	Score	.66
Exons	2035..2097, 2210..2332		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111049	Strand	-

Start	3039	End	4939
Name	OJ991117_16.0419.C1.o3.gs	Method	GENSCAN
Start	3039	End	4939
GI	none	Score	.49
Exons	3039..3059, 3413..3514, 3941..4115, 4872..4939		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111050	Strand	-
Start	9697	End	11101
Name	OJ991117_16.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	3437	End	3727
GI	none	Score	162
Exons	3437..3634, 3490..3597, 3491..3643, 3629..3727		

Seq. No.	52624	Seq. ID	OJ991117_16.0419.C1
Gene No.	111050	Strand	-
Start	9697	End	11101
Name	OJ991117_16.0419.C1.o4.gs	Method	GENSCAN
Start	9697	End	11101
GI	none	Score	.92
Exons	9697..9815, 10243..10306, 10384..10713, 11065..11101		

Seq. No.	52625	Seq. ID	OJ991117_16.0419.C2
Gene No.	111051	Strand	+
Start	205	End	536
Name	OJ991117_16.0419.C2.o1.gs	Method	GENSCAN
Start	205	End	536
GI	none	Score	.57
Exons	205..262, 422..536		

Seq. No.	52625	Seq. ID	OJ991117_16.0419.C2
Gene No.	111052	Strand	-
Start	1096	End	1205
Name	OJ991117_16.0419.C2.o1.np	Method	AAT/NAP
Start	1096	End	1205
GI	4417291	Score	98
Exons	1096..1205		
GI Descrip.	(AC007019) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111053	Strand	+
Start	3148	End	7218
Name	OJ991117_16.0419.C3.o2.gs	Method	GENSCAN
Start	3148	End	7218
GI	none	Score	.4
Exons	3148..3245, 3314..3453, 4395..4507, 5385..5777, 7039..7218		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111053	Strand	+
Start	3148	End	7218
Name	OJ991117_16.0419.C3.o2.gp	Method	AAT/GAP
Start	5336	End	5585
GI	2312968	Score	487
Exons	5336..5585		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111053	Strand	+

Start	3148	End	7218
Name	OJ991117_16.0419.C3.o3.gp	Method	AAT/GAP
Start	5626	End	6145
GI	none	Score	818
Exons	5626..5777, 5875..6145		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111054	Strand	+
Start	11579	End	11680
Name	OJ991117_16.0419.C3.o4.gp	Method	AAT/GAP
Start	11579	End	11680
GI	LIB3477-003-P1-K1-E9	Score	109
Exons	11579..11680		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111055	Strand	+
Start	15479	End	15996
Name	OJ991117_16.0419.C3.o5.gp	Method	AAT/GAP
Start	15441	End	15741
GI	701028	Score	521
Exons	15441..15741		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111055	Strand	+
Start	15479	End	15996
Name	OJ991117_16.0419.C3.o5.gs	Method	GENSCAN
Start	15479	End	15996
GI	none	Score	.63
Exons	15479..15996		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111056	Strand	-
Start	1	End	825
Name	OJ991117_16.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	672
GI	4417291	Score	238
Exons	1..116, 168..360, 425..672		
GI Descrip.	(AC007019) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111056	Strand	-
Start	1	End	825
Name	OJ991117_16.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1	End	472
GI	none	Score	78
Exons	1..63, 1..105, 2..82, 169..471, 188..472		

Seq. No.	52626	Seq. ID	OJ991117_16.0419.C3
Gene No.	111056	Strand	-
Start	1	End	825
Name	OJ991117_16.0419.C3.o1.gp	Method	AAT/GAP
Start	443	End	825
GI	none	Score	699
Exons	443..825		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111057	Strand	+
Start	2511	End	4179
Name	OJ991117_16.0419.C4.o2.gs	Method	GENSCAN
Start	2511	End	4179
GI	none	Score	.92
Exons	2511..2574, 3629..4179		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111058	Strand	+
Start	5917	End	6120
Name	OJ991117_16.0419.C4.o3.gs	Method	GENSCAN
Start	5917	End	6120
GI	none	Score	.69
Exons	5917..6120		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111059	Strand	+
Start	6300	End	6673
Name	OJ991117_16.0419.C4.o1.gp	Method	AAT/GAP
Start	6300	End	6673
GI	38782_1.R1084	Score	616
Exons	6300..6673		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111060	Strand	+
Start	9108	End	13961
Name	OJ991117_16.0419.C4.o1.np	Method	AAT/NAP
Start	8701	End	10944
GI	6069653	Score	2151
Exons	8701..8918, 8951..9898, 9977..10944		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111060	Strand	+
Start	9108	End	13961
Name	OJ991117_16.0419.C4.o5.gs	Method	GENSCAN
Start	9108	End	13764
GI	none	Score	.46
Exons	9108..9826, 10161..10435, 10540..10715, 11370..11426, 11931..12137, 13295..13545, 13575..13764		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111060	Strand	+
Start	9108	End	13961
Name	OJ991117_16.0419.C4.o2.np	Method	AAT/NAP
Start	12990	End	13961
GI	6907086	Score	1013
Exons	12990..13744, 13802..13961		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111061	Strand	-
Start	6571	End	6788

Name	OJ991117_16.0419.C4.c4.gs	Method	GENSCAN
Start	6571	End	6788
GI	none	Score	.57
Exons	6571..6644, 6710..6788		

Seq. No.	52627	Seq. ID	OJ991117_16.0419.C4
Gene No.	111062	Strand	-
Start	7178	End	7603
Name	OJ991117_16.0419.C4.o2.gp	Method	AAT/GAP
Start	7178	End	7603
GI	4878407	Score	675
Exons	7178..7603		
GI Descrip.	6069643/dbj\|AP000616.1\|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111063	Strand	+
Start	1150	End	1689
Name	OJ991117_16.0419.C5.o1.np	Method	AAT/NAP
Start	1150	End	1689
GI	7415646	Score	114
Exons	1150..1689		
GI Descrip.	(AB029340) anthocyanin acyltransferase [Perilla frutescens]		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111064	Strand	+
Start	2429	End	3610
Name	OJ991117_16.0419.C5.o2.gs	Method	GENSCAN
Start	2429	End	3610
GI	none	Score	.92
Exons	2429..3610		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111065	Strand	-
Start	1027	End	1709
Name	OJ991117_16.0419.C5.o1.gs	Method	GENSCAN
Start	1027	End	1709
GI	none	Score	.76
Exons	1027..1446, 1482..1709		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111066	Strand	-
Start	4033	End	5668
Name	OJ991117_16.0419.C5.o3.gs	Method	GENSCAN
Start	4033	End	5518
GI	none	Score	.52
Exons	4033..4096, 4513..4696, 4930..5006, 5141..5178, 5426..5518		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111066	Strand	-
Start	4033	End	5668
Name	OJ991117_16.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	4151	End	5661
GI	none	Score	60
Exons	4151..4201, 4155..4202, 4301..4333, 4305..4331, 4477..4665, 4481..4666, 4496..4666, 4497..4667, 4497..4667, 4498..4674, 4784..4885, 4792..4890, 4808..4885, 4962..5129, 4965..5081,		

4967..5098, 5092..5184, 5095..5184, 5096..5191, 5315..5341,
5423..5518, 5424..5519, 5424..5519, 5425..5547, 5599..5661,
5599..5640, 5600..5641

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111066	Strand	-
Start	4033	End	5668
Name	OJ991117_16.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	4486	End	5110
GI	none	Score	163
Exons	4486..4653, 4497..4667, 4784..4885, 4805..4885, 4967..5029, 5036..5110		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111066	Strand	-
Start	4033	End	5668
Name	OJ991117_16.0419.C5.o3.np	Method	AAT/NAP
Start	4500	End	5668
GI	5002704	Score	141
Exons	4500..4658, 4793..4882, 4967..5178, 5426..5668		
GI Descrip.	(AJ242630) DNA polymerase I [Methylobacterium sp. DM4]		

Seq. No.	52628	Seq. ID	OJ991117_16.0419.C5
Gene No.	111066	Strand	-
Start	4033	End	5668
Name	OJ991117_16.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	4805	End	5497
GI	none	Score	50
Exons	4805..4879, 4808..4876, 4961..5104, 4966..5070, 4968..5072, 5095..5184, 5097..5144, 5108..5185, 5423..5497, 5424..5495		

Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111067	Strand	-
Start	207	End	7379
Name	OJ991117_16.0419.C6.o1.gs	Method	GENSCAN
Start	207	End	7379
GI	none	Score	.46
Exons	207..217, 271..411, 445..641, 1129..1796, 2141..2338, 2890..3615, 4012..4160, 4271..4382, 4564..4773, 5764..5984, 6325..6372, 6973..7099, 7202..7379		

Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111067	Strand	-
Start	207	End	7379
Name	OJ991117_16.0419.C6.o1.gp	Method	AAT/GAP
Start	6160	End	6263
GI	uC-osflcyp082b07a1	Score	149
Exons	6160..6263		
GI Descrip.	'218221/dbj\|D10675\|RICSINE1R6 3.0e-30 Oryza sativa p-SINE1-r6 gene, repeat sequence'		

Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111068	Strand	-
Start	7632	End	7775
Name	OJ991117_16.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	2	End	358
GI	none	Score	117

Exons	2..97, 3..98, 207..356, 209..358		
Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111068	Strand	-
Start	7632	End	7775
Name	OJ991117_16.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	65	End	646
GI	none	Score	39
Exons	65..97, 66..98, 216..347, 218..349, 219..347, 408..638, 415..639, 416..646, 441..638		
Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111068	Strand	-
Start	7632	End	7775
Name	OJ991117_16.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1278	End	1594
GI	none	Score	138
Exons	1278..1385, 1279..1386, 1380..1589, 1380..1592, 1388..1594, 1447..1593		
Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111068	Strand	-
Start	7632	End	7775
Name	OJ991117_16.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	1702	End	3012
GI	none	Score	111
Exons	1702..1800, 1704..1796, 2135..2203, 2136..2180, 2204..2251, 2204..2254, 2244..2348, 2261..2341, 2887..3012, 2888..2992		
Seq. No.	52629	Seq. ID	OJ991117_16.0419.C6
Gene No.	111068	Strand	-
Start	7632	End	7775
Name	OJ991117_16.0419.C6.o1.np	Method	AAT/NAP
Start	7632	End	7775
GI	5902376	Score	94
Exons	7632..7775		
GI Descrip.	(AC009322) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.gp	Method	AAT/GAP
Start	776	End	1614
GI	1998_1.R1084	Score	1467
Exons	776..1408, 1501..1614		
GI Descrip.	'1076422/pir\|\|S48121 2.0e-18 transcription factor OBF4 - Arabidopsis thaliana >gi_414613_emb_CAA49524_ (X69899) ocs-element binding factor 4 [Arabidopsis thaliana]'		
Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1017	End	1684
GI	none	Score	40
Exons	1017..1088, 1154..1174, 1248..1415, 1249..1359, 1377..1433, 1501..1590, 1508..1594, 1586..1684, 1592..1678		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.gs	Method	GENSCAN
Start	1254	End	2055
GI	none	Score	.91
Exons	1254..1412, 1501..1734, 1861..2055		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.np	Method	AAT/NAP
Start	1263	End	2144
GI	1076421	Score	582
Exons	1263..1412, 1501..1726, 1853..2144		
GI Descrip.	transcription factor TGA3 - Arabidopsis thaliana gi\|304113\|gb\|AAA32873.1\| (L10209) transcription factor [Arabidopsis thaliana]		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	1269	End	2142
GI	none	Score	90
Exons	1269..1415, 1270..1356, 1597..1725, 1616..1729, 1853..1987, 1858..2037, 1870..2013, 2062..2142		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1269	End	2143
GI	none	Score	71
Exons	1269..1415, 1270..1359, 1377..1415, 1591..1731, 1604..1726, 1858..2037, 1859..1978, 1870..2013, 2062..2142, 2066..2143		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o2.gp	Method	AAT/GAP
Start	1542	End	1914
GI	LIB3475-009-P1-K1-G5	Score	339
Exons	1542..1734, 1861..1914		
GI Descrip.	'1076421/pir\|\|S46523 1.0e-11 transcription factor TGA3 - Arabidopsis thaliana >gi_304113 (L10209) transcription factor [Arabidopsis thaliana]'		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1693	End	2143
GI	none	Score	120
Exons	1693..1731, 1858..2037, 1859..1966, 1867..1998, 2071..2142, 2072..2143		

Seq. No.	52630	Seq. ID	OJ991117_16.0419.C7
Gene No.	111069	Strand	-
Start	1254	End	2144
Name	OJ991117_16.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	1882	End	2143
GI	none	Score	97
Exons	1882..2037, 1886..1975, 2062..2142, 2063..2143		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111070	Strand	+
Start	18327	End	22837
Name	OJ991117_16.0419.C8.o3.np	Method	AAT/NAP
Start	18210	End	21008
GI	6815067	Score	620
Exons	18210..19326, 19606..19729, 20987..21008		
GI Descrip.	(AP001080) ESTs AU082210(C53655),AU056546(S20671), AU056545(S20671) correspond to a region of the predicted gene.; Similar to putative RNA-binding protein (AC004261) [Oryza sativa]		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111070	Strand	+
Start	18327	End	22837
Name	OJ991117_16.0419.C8.o2.gp	Method	AAT/GAP
Start	18272	End	18787
GI	30857_1.R1084	Score	1016
Exons	18272..18787		
GI Descrip.	'3402711 1.0e-20 (AC004261) putative RNA-binding protein [Arabidopsis thaliana]'		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111070	Strand	+
Start	18327	End	22837
Name	OJ991117_16.0419.C8.o2.gs	Method	GENSCAN
Start	18327	End	22837
GI	none	Score	.48
Exons	18327..19711, 19737..19883, 20021..20247, 22679..22837		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111070	Strand	+
Start	18327	End	22837
Name	OJ991117_16.0419.C8.o3.gp	Method	AAT/GAP
Start	18874	End	19253
GI	5005147	Score	718
Exons	18874..19253		
GI Descrip.	3402711 1.0e-20 (AC004261) putative RNA-binding protein [Arabidopsis thaliana]		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111070	Strand	+
Start	18327	End	22837
Name	OJ991117_16.0419.C8.o4.gp	Method	AAT/GAP
Start	20047	End	20352
GI	none	Score	580
Exons	20047..20352		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111071	Strand	-
Start	1	End	1121
Name	OJ991117_16.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1121
GI	7488719	Score	272
Exons	1..57, 171..234, 323..400, 512..571, 757..831, 960..1121		
GI Descrip.	transcription factor STGA1 - soybean gi\|986969\|gb\|AAA75414.1\| (L28005) TGACG-motif-binding protein [Glycine max]		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111071	Strand	-
Start	1	End	1121
Name	OJ991117_16.0419.C8.o1.gp	Method	AAT/GAP
Start	287	End	572
GI	none	Score	194
Exons	287..400, 512..572		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o9.tm	Method	TBLASTX:Maize
Start	2	End	831
GI	none	Score	60
Exons	2..67, 6..59, 169..219, 170..220, 218..244, 312..404, 312..401, 494..568, 511..564, 754..831		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o2.np	Method	AAT/NAP
Start	11620	End	15693
GI	7228446	Score	6223
Exons	11620..12490, 12578..15693		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	11638	End	12303
GI	none	Score	99
Exons	11638..11889, 11642..11863, 11887..12012, 11906..12028, 12007..12105, 12008..12118, 12121..12303, 12151..12303		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	11641	End	12282
GI	none	Score	65
Exons	11641..12114, 11687..11818, 11921..12115, 12121..12282		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-

Start	11620	End	15693
Name	OJ991117_16.0419.C8.o5.tm	Method	TBLASTX:Maize
Start	11641	End	12027
GI	none	Score	40
Exons	11641..12027, 11678..11713, 11759..12016		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o4.tw	Method	TBLASTX:Wheat
Start	11668	End	12087
GI	none	Score	85
Exons	11668..11886, 11884..12087, 11909..12061		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	12169	End	12592
GI	none	Score	279
Exons	12169..12591, 12170..12592		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	12325	End	12990
GI	none	Score	97
Exons	12325..12432, 12451..12654, 12646..12990, 12668..12907, 12682..12984		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	12658	End	13185
GI	5509260	Score	90
Exons	12658..13185, 12680..12835, 12682..12840, 12956..13174		
GI Descrip.	-		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o4.tc	Method	TBLASTX:Cress
Start	12772	End	13035
GI	none	Score	116
Exons	12772..13020, 12772..13035, 12897..13034		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	12811	End	13131
GI	none	Score	180
Exons	12811..13131, 12811..13122, 12831..13124		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8

Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o4.ts	Method	TBLASTX:Soybean
Start	13474	End	13950
GI	none	Score	129
Exons	13474..13899, 13474..13950, 13577..13945		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o3.tc	Method	TBLASTX:Cress
Start	13492	End	13959
GI	none	Score	111
Exons	13492..13959, 13499..13876		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	13551	End	13981
GI	none	Score	52
Exons	13551..13634, 13552..13623, 13636..13977, 13648..13962, 13652..13981		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	13624	End	14184
GI	none	Score	47
Exons	13624..13713, 13637..13714, 13720..14184, 13721..14158		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o5.ts	Method	TBLASTX:Soybean
Start	13990	End	14319
GI	none	Score	242
Exons	13990..14319, 14143..14223		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	14257	End	14709
GI	none	Score	174
Exons	14257..14343, 14342..14695, 14344..14709		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o6.tm	Method	TBLASTX:Maize
Start	14323	End	14731
GI	none	Score	42
Exons	14323..14730, 14327..14362, 14429..14731		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8

Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o8.tm	Method	TBLASTX:Maize
Start	15226	End	15550
GI	none	Score	64
Exons	15226..15549, 15253..15402, 15473..15550		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111072	Strand	-
Start	11620	End	15693
Name	OJ991117_16.0419.C8.o5.tw	Method	TBLASTX:Wheat
Start	15244	End	15624
GI	none	Score	213
Exons	15244..15624		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111073	Strand	
Start	18288	End	18596
Name	OJ991117_16.0419.C8.o10.tm	Method	TBLASTX:Maize
Start	18288	End	18596
GI	none	Score	95
Exons	18288..18386, 18296..18403, 18344..18463, 18372..18467, 18525..18596, 18543..18596		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111074	Strand	
Start	18543	End	19523
Name	OJ991117_16.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	18543	End	19268
GI	none	Score	47
Exons	18543..18593, 18665..18787, 18666..18902, 18666..18902, 18857..18910, 19000..19248, 19002..19268, 19011..19250, 19011..19247, 19019..19249		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111074	Strand	
Start	18543	End	19523
Name	OJ991117_16.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	18666	End	19268
GI	none	Score	219
Exons	18666..18902, 18666..18902, 18998..19249, 18999..19250, 19002..19268		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111074	Strand	
Start	18543	End	19523
Name	OJ991117_16.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	18666	End	19523
GI	none	Score	79
Exons	18666..18902, 18989..19072, 18995..19282, 18996..19274, 18997..19290, 19008..19289, 19115..19309, 19370..19480, 19370..19408, 19372..19479, 19481..19507, 19482..19505, 19497..19523		

Seq. No.	52631	Seq. ID	OJ991117_16.0419.C8
Gene No.	111075	Strand	
Start	19815	End	20352

Name	OJ991117_16.0419.C8.o7.tm	Method	TBLASTX:Maize
Start	19815	End	20352
GI	none	Score	61
Exons	19815..19886, 19817..19888, 20005..20130, 20006..20137, 20006..20131, 20013..20141, 20135..20206, 20142..20192, 20143..20211, 20184..20258, 20206..20259, 20207..20257, 20266..20307, 20271..20309, 20311..20352, 20313..20351		

Seq. No.	52632	Seq. ID	OJ991117_16.0419.C9
Gene No.	111076	Strand	+
Start	1	End	222
Name	OJ991117_16.0419.C9.o1.gp	Method	AAT/GAP
Start	1	End	222
GI	none	Score	195
Exons	1..33, 92..222		

Seq. No.	52632	Seq. ID	OJ991117_16.0419.C9
Gene No.	111076	Strand	+
Start	1	End	222
Name	OJ991117_16.0419.C9.o1.gs	Method	GENSCAN
Start	95	End	210
GI	none	Score	.83
Exons	95..210		

Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111077	Strand	+
Start	369	End	767
Name	OJ991117_16.0419.C10.o1.gs	Method	GENSCAN
Start	369	End	767
GI	none	Score	.63
Exons	369..767		

Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111078	Strand	+
Start	1583	End	7080
Name	OJ991117_16.0419.C10.o2.gs	Method	GENSCAN
Start	1583	End	7080
GI	none	Score	.48
Exons	1583..1644, 2896..3063, 3144..3336, 3947..4063, 4244..4405, 4506..4659, 4743..4885, 4986..5021, 5115..5803, 5835..5963, 6259..6380, 6554..6680, 6711..6954, 7045..7080		

Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111078	Strand	+
Start	1583	End	7080
Name	OJ991117_16.0419.C10.o2.np	Method	AAT/NAP
Start	3196	End	6691
GI	7022824	Score	194
Exons	3196..3268, 3816..4074, 6642..6691		
GI Descrip.	(AK001518) unnamed protein product [Homo sapiens]		

Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111078	Strand	+
Start	1583	End	7080
Name	OJ991117_16.0419.C10.o2.gp	Method	AAT/GAP
Start	5677	End	6036
GI	5039005	Score	640

Exons	5677..6036		
Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111079	Strand	-
Start	404	End	5024
Name	OJ991117_16.0419.C10.o1.np	Method	AAT/NAP
Start	404	End	4022
GI	7301680	Score	57
Exons	404..740, 3401..3454, 3962..4022		
GI Descrip.	(AE003765) CG18436 gene product [Drosophila melanogaster]		
Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111079	Strand	-
Start	404	End	5024
Name	OJ991117_16.0419.C10.o1.gp	Method	AAT/GAP
Start	425	End	1045
GI	none	Score	1219
Exons	425..1045		
Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111079	Strand	-
Start	404	End	5024
Name	OJ991117_16.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	3773	End	4885
GI	none	Score	291
Exons	3773..4069, 3816..3884, 3817..4062, 3860..4066, 4244..4321, 4518..4661, 4763..4885		
Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111079	Strand	-
Start	404	End	5024
Name	OJ991117_16.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3904	End	4326
GI	none	Score	197
Exons	3904..4065, 3905..4066, 4243..4326, 4244..4324		
Seq. No.	52633	Seq. ID	OJ991117_16.0419.C10
Gene No.	111079	Strand	-
Start	404	End	5024
Name	OJ991117_16.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	4512	End	5024
GI	none	Score	131
Exons	4512..4640, 4517..4651, 4518..4655, 4737..4814, 4748..4885, 4983..5024		
Seq. No.	52634	Seq. ID	OJ991117_16.0419.C11
Gene No.	111080	Strand	+
Start	1	End	1593
Name	OJ991117_16.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1593
GI	7487220	Score	174
Exons	1..44, 518..696, 872..971, 1536..1593		
GI Descrip.	hypothetical protein T19P19.80 - Arabidopsis thaliana gi\|3080438\|emb\|CAA18755.1\| (AL022605) putative protein [Arabidopsis thaliana] gi\|7270953\|emb\|CAB80632.1\| (AL161595) putative protein [Arabidopsis thaliana]		

Seq. No.	52634	Seq. ID	OJ991117_16.0419.C11
Gene No.	111080	Strand	+
Start	1	End	1593
Name	OJ991117_16.0419.C11.o1.gs	Method	GENSCAN
Start	252	End	1130
GI	none	Score	.94
Exons	252..380, 509..664, 894..1130		

Seq. No.	52634	Seq. ID	OJ991117_16.0419.C11
Gene No.	111080	Strand	+
Start	1	End	1593
Name	OJ991117_16.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	294	End	1000
GI	none	Score	76
Exons	294..359, 296..358, 345..377, 888..971, 891..971, 892..978,	483..671, 515..664, 550..666, 920..1000	

Seq. No.	52634	Seq. ID	OJ991117_16.0419.C11
Gene No.	111080	Strand	+
Start	1	End	1593
Name	OJ991117_16.0419.C11.o1.gp	Method	AAT/GAP
Start	868	End	1593
GI	LIB3434-039-P1-K1-A9	Score	223
Exons	868..971, 1536..1593		
GI Descrip.	'3080438/emb\|CAA18755.1\| 2.0e-10 (AL022605) putative protein [Arabidopsis thaliana]'		

Seq. No.	52635	Seq. ID	OJ991117_16.0419.C12
Gene No.	111081	Strand	-
Start	794	End	925
Name	OJ991117_16.0419.C12.o1.gp	Method	AAT/GAP
Start	794	End	925
GI	none	Score	201
Exons	794..925		

Seq. No.	52636	Seq. ID	OJ991117_16.0419.C13
Gene No.	111082	Strand	+
Start	567	End	2139
Name	OJ991117_16.0419.C13.o1.gs	Method	GENSCAN
Start	567	End	2139
GI	none	Score	.73
Exons	567..674, 1147..2139		

Seq. No.	52636	Seq. ID	OJ991117_16.0419.C13
Gene No.	111083	Strand	-
Start	1	End	1858
Name	OJ991117_16.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1858
GI	4680186	Score	211
Exons	1..44, 311..480, 1820..1858		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52637	Seq. ID	OJ991117_16.0419.C14
Gene No.	111084	Strand	-
Start	121	End	319
Name	OJ991117_16.0419.C14.o1.gs	Method	GENSCAN
Start	121	End	319

GI	none	Score	.84
Exons	121..319		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111085	Strand	+
Start	1740	End	3860
Name	OJ991117_16.0419.C15.o1.gs	Method	GENSCAN
Start	1740	End	3547
GI	none	Score	.67
Exons	1740..1961, 2099..3547		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111085	Strand	+
Start	1740	End	3860
Name	OJ991117_16.0419.C15.o1.np	Method	AAT/NAP
Start	2129	End	3498
GI	4454467	Score	1671
Exons	2129..3498		
GI Descrip.	(AC006234) unknown protein [Arabidopsis thaliana]		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111085	Strand	+
Start	1740	End	3860
Name	OJ991117_16.0419.C15.o1.gp	Method	AAT/GAP
Start	2202	End	2576
GI	428275	Score	734
Exons	2202..2576		
GI Descrip.	4454467/gb\|AAD20914\| 7.0e-28 (AC006234) unknown protein [Arabidopsis thaliana]		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111085	Strand	+
Start	1740	End	3860
Name	OJ991117_16.0419.C15.o2.gp	Method	AAT/GAP
Start	3440	End	3860
GI	LIB3432-059-P1-K1-D4	Score	726
Exons	3440..3860		
GI Descrip.	'4454467/gb\|AAD20914\| 7.0e-28 (AC006234) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	2264	End	3547
GI	none	Score	113
Exons	2264..2662, 2585..2950, 2626..2886, 2720..2911, 2927..3388, 2938..3384, 3392..3535, 3425..3547		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2345	End	3472
GI	none	Score	103
Exons	2345..2581, 2491..2547, 2609..2950, 2626..2877, 2714..2899, 2926..3123, 2927..3388, 2929..3390, 3392..3472, 3422..3472		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2479	End	3388
GI	none	Score	193
Exons	2479..2547, 2612..2914, 2647..2772, 2939..3109, 2983..3111, 3077..3118, 3112..3273, 3125..3280, 3128..3280, 3281..3388, 3289..3384		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	2927	End	3301
GI	none	Score	513
Exons	2927..3301, 2932..3288, 2933..3298		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	3332	End	3535
GI	none	Score	79
Exons	3332..3388, 3349..3384, 3409..3510, 3410..3535, 3425..3523		

Seq. No.	52638	Seq. ID	OJ991117_16.0419.C15
Gene No.	111086	Strand	-
Start	4454	End	5314
Name	OJ991117_16.0419.C15.o2.gs	Method	GENSCAN
Start	4454	End	5314
GI	none	Score	.64
Exons	4454..5314		

Seq. No.	52639	Seq. ID	OJ991117_16.0419.C16
Gene No.	111087	Strand	
Start	802	End	1180
Name	OJ991117_16.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	802	End	1180
GI	none	Score	157
Exons	802..942, 802..903, 803..943, 1041..1139, 1047..1148, 1048..1146, 1049..1150, 1049..1180		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111088	Strand	+
Start	2811	End	4515
Name	OJ991117_16.0419.C17.o2.gs	Method	GENSCAN
Start	2811	End	4515
GI	none	Score	.97
Exons	2811..2939, 3020..3200, 3311..3418, 3532..3587, 3861..3956, 4061..4125, 4231..4304, 4391..4515		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111088	Strand	+
Start	2811	End	4515
Name	OJ991117_16.0419.C17.o2.np	Method	AAT/NAP

Start	2832	End	4512
GI	3551956	Score	974
Exons	2832..2939, 3020..3200, 3311..3418, 3532..3587, 3675..3758, 3861..3956, 4061..4125, 4231..4304, 4391..4512		
GI Descrip.	(AF082031) senescence-associated protein 6 [Hemerocallis hybrid cultivar]		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111089	Strand	+
Start	5772	End	9441
Name	OJ991117_16.0419.C17.o3.gs	Method	GENSCAN
Start	5772	End	9416
GI	none	Score	.73
Exons	5772..5839, 6369..6438, 6817..8040, 8933..9416		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111089	Strand	+
Start	5772	End	9441
Name	OJ991117_16.0419.C17.o3.np	Method	AAT/NAP
Start	6319	End	9441
GI	6634762	Score	1296
Exons	6319..6438, 6817..8040, 8969..9441		
GI Descrip.	(AC009917) Contains a bZIP transcription factor PF\|00170 domain. ESTs gb\|R30400, gb\|AA650964, gb\|AI994521 come from this gene. [Arabidopsis thaliana]		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111090	Strand	-
Start	1	End	2425
Name	OJ991117_16.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	2335
GI	7429424	Score	745
Exons	1..26, 310..429, 631..713, 809..1034, 1103..1177, 1285..1437, 1522..1635, 1731..1793, 2001..2111, 2204..2335		
GI Descrip.	hypothetical protein slr0580 - Synechocystis sp. (strain PCC 6803) gi\|1001257\|dbj\|BAA10501.1\| (D64003) hypothetical protein [Synechocystis sp.]		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111090	Strand	-
Start	1	End	2425
Name	OJ991117_16.0419.C17.o5.tm	Method	TBLASTX:Maize
Start	310	End	853
GI	none	Score	170
Exons	310..432, 311..430, 311..433, 316..432, 342..482, 630..716, 630..719, 631..723, 631..720, 813..851, 817..852, 821..853		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111090	Strand	-
Start	1	End	2425
Name	OJ991117_16.0419.C17.o1.gs	Method	GENSCAN
Start	313	End	2425
GI	none	Score	.83
Exons	313..429, 631..717, 813..1034, 1103..1180, 1731..1793, 2001..2111, 2204..2425		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17

Gene No.	111090	Strand	-
Start	1	End	2425
Name	OJ991117_16.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	1102	End	1557
GI	none	Score	123
Exons	1102..1182, 1103..1186, 1104..1181, 1262..1390, 1303..1392, 1309..1404, 1401..1460, 1403..1459, 1520..1555, 1522..1557		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111090	Strand	-
Start	1	End	2425
Name	OJ991117_16.0419.C17.o4.ts	Method	TBLASTX:Soybean
Start	1336	End	1638
GI	none	Score	74
Exons	1336..1392, 1337..1393, 1337..1456, 1339..1437, 1519..1635, 1520..1636, 1525..1638, 1527..1637		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111091	Strand	
Start	2895	End	4497
Name	OJ991117_16.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	2895	End	3378
GI	none	Score	80
Exons	2895..2939, 3017..3199, 3022..3183, 3101..3184, 3283..3378, 3306..3374		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111091	Strand	
Start	2895	End	4497
Name	OJ991117_16.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	2895	End	4497
GI	none	Score	60
Exons	2895..2939, 3026..3136, 3128..3172, 3298..3450, 3533..3580, 3534..3587, 3671..3760, 3672..3761, 3857..4021, 3861..3953, 4052..4105, 4226..4324, 4390..4497		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111091	Strand	
Start	2895	End	4497
Name	OJ991117_16.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	2895	End	3201
GI	none	Score	71
Exons	2895..2939, 2900..2938, 3016..3201, 3017..3199		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111091	Strand	
Start	2895	End	4497
Name	OJ991117_16.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	3663	End	4434
GI	none	Score	119
Exons	3663..3761, 3861..3959, 4067..4105, 4228..4290, 4232..4324, 4389..4430, 4390..4434		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o1.tw	Method	TBLASTX:Wheat

Start	6370	End	7005
GI	none	Score	79
Exons	6370..6438, 6373..6426, 6374..6439, 6799..7005, 6814..6996		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o3.tc	Method	TBLASTX:Cress
Start	6814	End	7095
GI	none	Score	63
Exons	6814..6882, 6883..7065, 7057..7095		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o5.ts	Method	TBLASTX:Soybean
Start	6814	End	7140
GI	none	Score	45
Exons	6814..6873, 6889..7140, 6907..7035		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	6883	End	7644
GI	none	Score	210
Exons	6883..7140, 7183..7485, 7221..7454, 7522..7644, 7584..7643		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	7216	End	9160
GI	none	Score	50
Exons	7216..7263, 7261..7323, 7339..7479, 7582..7830, 7594..7782, 7807..8040, 8957..9160, 8968..9066		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	7564	End	9127
GI	none	Score	143
Exons	7564..7794, 7882..8040, 8957..9127		

Seq. No.	52640	Seq. ID	OJ991117_16.0419.C17
Gene No.	111092	Strand	
Start	6370	End	9193
Name	OJ991117_16.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	7848	End	9193
GI	none	Score	206
Exons	7848..7982, 7864..8040, 8957..9193, 8974..9192		

Seq. No.	52641	Seq. ID	OJ991117_16.0419.C18
Gene No.	111093	Strand	-
Start	800	End	2188
Name	OJ991117_16.0419.C18.o1.tm	Method	TBLASTX:Maize

Start	549	End	2178
GI	none	Score	43
Exons	549..608, 594..665, 624..695, 795..926, 797..928, 898..1032, 914..1033, 923..1042, 1454..1564, 1461..1562, 1471..1563, 1791..1859, 1802..1858, 1853..1993, 1860..1994, 1860..1988, 1861..1992, 1862..1996, 2105..2131, 2131..2178		

Seq. No.	52641	Seq. ID	OJ991117_16.0419.C18
Gene No.	111093	Strand	-
Start	800	End	2188
Name	OJ991117_16.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	783	End	1564
GI	none	Score	128
Exons	783..1025, 797..1027, 1454..1564, 1458..1562		

Seq. No.	52641	Seq. ID	OJ991117_16.0419.C18
Gene No.	111093	Strand	-
Start	800	End	2188
Name	OJ991117_16.0419.C18.o1.gs	Method	GENSCAN
Start	800	End	1992
GI	none	Score	.66
Exons	800..1030, 1460..1561, 1814..1862, 1892..1992		

Seq. No.	52641	Seq. ID	OJ991117_16.0419.C18
Gene No.	111093	Strand	-
Start	800	End	2188
Name	OJ991117_16.0419.C18.o1.np	Method	AAT/NAP
Start	803	End	2188
GI	7487220	Score	439
Exons	803..1023, 1450..1617, 1789..1992, 2105..2188		
GI Descrip.	hypothetical protein T19P19.80 - Arabidopsis thaliana gi\|3080438\|emb\|CAA18755.1\| (AL022605) putative protein [Arabidopsis thaliana] gi\|7270953\|emb\|CAB80632.1\| (AL161595) putative protein [Arabidopsis thaliana]		

Seq. No.	52642	Seq. ID	OJ991117_10.0421.C1
Gene No.	111094	Strand	-
Start	23	End	587
Name	OJ991117_10.0421.C1.o1.gs	Method	GENSCAN
Start	23	End	587
GI	none	Score	.45
Exons	23..587		

Seq. No.	52643	Seq. ID	OJ991117_10.0421.C2
Gene No.	111095	Strand	+
Start	544	End	865
Name	OJ991117_10.0421.C2.o1.gs	Method	GENSCAN
Start	544	End	865
GI	none	Score	.73
Exons	544..613, 783..865		

Seq. No.	52643	Seq. ID	OJ991117_10.0421.C2
Gene No.	111096	Strand	-
Start	574	End	839
Name	OJ991117_10.0421.C2.o1.np	Method	AAT/NAP
Start	574	End	839
GI	7523512	Score	108

Exons	574..839		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111097	Strand	+
Start	3972	End	4175
Name	OJ991117_10.0421.C3.o2.np	Method	AAT/NAP
Start	3972	End	4175
GI	7340909	Score	116
Exons	3972..4175		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o2.tw	Method	TBLASTX:Wheat
Start	114	End	630
GI	none	Score	44
Exons	114..185, 244..453, 448..486, 514..630		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	250	End	485
GI	none	Score	214
Exons	250..468, 273..485		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	499	End	999
GI	none	Score	325
Exons	499..696, 528..716, 529..900, 802..900, 913..999, 918..995		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o1.tw	Method	TBLASTX:Wheat
Start	724	End	1092
GI	none	Score	364
Exons	724..1092, 733..1092		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	1171	End	1461
GI	none	Score	192
Exons	1171..1368, 1206..1367, 1363..1461		
Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o1.gs	Method	GENSCAN
Start	1316	End	4108

GI	none	Score	.6
Exons	1316..1350, 1641..1747, 2044..2105, 2715..2766, 4044..4108		

Seq. No.	52644	Seq. ID	OJ991117_10.0421.C3
Gene No.	111098	Strand	-
Start	1316	End	4108
Name	OJ991117_10.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	2043	End	2593
GI	none	Score	71
Exons	2043..2108, 2044..2109, 2202..2300, 2203..2292, 2203..2328, 2501..2593, 2510..2587		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111099	Strand	-
Start	1	End	1507
Name	OJ991117_10.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	1507
GI	7340909	Score	136
Exons	1..205, 1460..1507		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	1842	End	2118
GI	none	Score	47
Exons	1842..2093, 1843..1878, 1849..2118, 1867..1890, 1917..2093, 1921..2094		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o2.gs	Method	GENSCAN
Start	3491	End	11688
GI	none	Score	.58
Exons	3491..3609, 3679..3821, 4117..4204, 4599..4667, 5489..5564, 5856..5932, 6306..6500, 7938..8201, 8517..8720, 8919..9009, 10754..11030, 11616..11688		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	4116	End	4664
GI	none	Score	75
Exons	4116..4193, 4117..4182, 4275..4373, 4276..4365, 4572..4664, 4581..4661		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	6314	End	8033
GI	none	Score	147
Exons	6314..6508, 6319..6510, 6662..6724, 7932..8033		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o2.np	Method	AAT/NAP
Start	6382	End	8050
GI	1491712	Score	149
Exons	6382..6500, 6661..6736, 7938..8050		
GI Descrip.	(X99961) unknown [Homo sapiens]		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o2.ts	Method	TBLASTX:Soybean
Start	6382	End	8608
GI	none	Score	127
Exons	6382..6510, 6383..6508, 6662..6724, 7932..8033, 7938..8033, 8528..8608		

Seq. No.	52645	Seq. ID	OJ991117_10.0421.C4
Gene No.	111100	Strand	-
Start	3491	End	11688
Name	OJ991117_10.0421.C4.o3.np	Method	AAT/NAP
Start	9938	End	10931
GI	7340868	Score	178
Exons	9938..10026, 10596..10931		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111101	Strand	+
Start	3418	End	3766
Name	OJ991117_10.0421.C5.o1.gs	Method	GENSCAN
Start	3418	End	3766
GI	none	Score	.55
Exons	3418..3766		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111102	Strand	+
Start	5565	End	16440
Name	OJ991117_10.0421.C5.o2.gs	Method	GENSCAN
Start	5565	End	16440
GI	none	Score	.59
Exons	5565..5842, 6945..7014, 7849..7892, 8731..8853, 9749..9828, 10324..10471, 10526..10756, 11306..11517, 11986..12118, 12552..12763, 13052..13110, 13184..13278, 13363..13465, 14508..14600, 14871..14929, 15667..15775, 16300..16440		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111103	Strand	-
Start	1705	End	8949
Name	OJ991117_10.0421.C5.o2.np	Method	AAT/NAP
Start	1705	End	8949
GI	7106516	Score	170
Exons	1705..1726, 8008..8166, 8908..8949		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111103	Strand	-

Start	1705	End	8949
Name	OJ991117_10.0421.C5.o1.np	Method	AAT/NAP
Start	3820	End	5925
GI	7523517	Score	295
Exons	3820..3853, 5426..5474, 5625..5925		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111104	Strand	-
Start	9950	End	11661
Name	OJ991117_10.0421.C5.o3.np	Method	AAT/NAP
Start	9950	End	11661
GI	4680183	Score	117
Exons	9950..10089, 10245..10465, 11597..11661		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	11249	End	11504
GI	none	Score	232
Exons	11249..11503, 11250..11504		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	13360	End	14127
GI	none	Score	180
Exons	13360..13458, 13361..13468, 13406..13465, 13568..13669, 13578..13673, 13579..13671, 13738..13803, 13739..13807, 13745..13807, 14054..14125, 14059..14127		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	14063	End	14573
GI	none	Score	84
Exons	14063..14125, 14083..14139, 14227..14319, 14228..14299, 14290..14334, 14300..14335, 14486..14572, 14487..14573		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	14474	End	15928
GI	none	Score	205
Exons	14474..14599, 14475..14603, 14869..14925, 14870..14929, 14871..14930, 15627..15776, 15661..15777, 15662..15778, 15846..15920, 15851..15928, 15852..15920, 15853..15927		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o3.gs	Method	GENSCAN

Start	17841	End	21053
GI	none	Score	.86
Exons	17841..17934, 18429..18950, 19963..20059, 20773..20835, 21020..21053		

Seq. No.	52646	Seq. ID	OJ991117_10.0421.C5
Gene No.	111105	Strand	-
Start	17841	End	21189
Name	OJ991117_10.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	20657	End	21189
GI	none	Score	72
Exons	20657..20734, 20867..20998, 20881..20973, 20885..20974, 20971..21012, 21018..21182, 21088..21189, 21092..21187		

Seq. No.	52647	Seq. ID	OJ991117_10.0421.C6
Gene No.	111106	Strand	+
Start	750	End	3665
Name	OJ991117_10.0421.C6.o1.gs	Method	GENSCAN
Start	750	End	3665
GI	none	Score	.82
Exons	750..829, 1452..1583, 2313..2400, 3576..3665		

Seq. No.	52647	Seq. ID	OJ991117_10.0421.C6
Gene No.	111107	Strand	+
Start	11332	End	16576
Name	OJ991117_10.0421.C6.o1.np	Method	AAT/NAP
Start	11332	End	16576
GI	6063554	Score	176
Exons	11332..11397, 14999..15218, 15303..15351, 16406..16576		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52647	Seq. ID	OJ991117_10.0421.C6
Gene No.	111108	Strand	-
Start	3986	End	7003
Name	OJ991117_10.0421.C6.o2.gs	Method	GENSCAN
Start	3986	End	7003
GI	none	Score	.54
Exons	3986..4258, 5298..5363, 5585..5731, 5910..6049, 6856..7003		

Seq. No.	52647	Seq. ID	OJ991117_10.0421.C6
Gene No.	111109	Strand	-
Start	12354	End	15428
Name	OJ991117_10.0421.C6.o4.gs	Method	GENSCAN
Start	12354	End	15428
GI	none	Score	.56
Exons	12354..12400, 12933..12972, 13019..13194, 13548..13587, 13807..13962, 14208..14230, 14638..14948, 14953..15428		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111110	Strand	+
Start	625	End	6777
Name	OJ991117_10.0421.C7.o1.np	Method	AAT/NAP
Start	625	End	6777
GI	7228457	Score	9280
Exons	625..991, 1053..2988, 3052..3886, 4009..5160, 5227..6777		

GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111111	Strand	-
Start	7416	End	10182
Name	OJ991117_10.0421.C7.o2.gs	Method	GENSCAN
Start	7416	End	10077
GI	none	Score	.93
Exons	7416..8990, 10012..10077		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111111	Strand	-
Start	7416	End	10182
Name	OJ991117_10.0421.C7.o1.gp	Method	AAT/GAP
Start	9797	End	10182
GI	uC-osf1cyp033a04b1	Score	641
Exons	9797..10182		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o9.tw	Method	TBLASTX:Wheat
Start	1279	End	1671
GI	none	Score	58
Exons	1279..1326, 1333..1431, 1350..1430, 1398..1637, 1414..1671		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o8.tm	Method	TBLASTX:Maize
Start	1284	End	1569
GI	none	Score	193
Exons	1284..1568, 1321..1569		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o6.tw	Method	TBLASTX:Wheat
Start	2409	End	2892
GI	none	Score	410
Exons	2409..2582, 2410..2892, 2604..2864		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o4.tw	Method	TBLASTX:Wheat
Start	3059	End	13346
GI	none	Score	208
Exons	3059..3502, 3060..3521, 3061..3522, 13128..13346		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199

Name	OJ991117_10.0421.C7.o5.ts	Method	TBLASTX:Soybean
Start	3100	End	13301
GI	none	Score	117
Exons	3100..3324, 3331..3465, 13167..13301		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o6.tm	Method	TBLASTX:Maize
Start	3190	End	13346
GI	none	Score	357
Exons	3190..3519, 3225..3518, 13116..13346		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	3523	End	13109
GI	none	Score	75
Exons	3523..3672, 3661..4014, 12609..12923, 12652..12702, 12730..12783, 12930..13109, 12955..13101		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	3601	End	13055
GI	none	Score	146
Exons	3601..3972, 12660..13019, 12661..12951, 12979..13017, 13023..13055, 13024..13053		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o5.tw	Method	TBLASTX:Wheat
Start	3630	End	12998
GI	none	Score	485
Exons	3630..4055, 3631..4050, 12645..12998		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	4648	End	12573
GI	none	Score	63
Exons	4648..4788, 12210..12572, 12219..12572, 12223..12573		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o7.tw	Method	TBLASTX:Wheat
Start	4681	End	5139
GI	none	Score	233
Exons	4681..4929, 4705..4929, 4770..4943, 4990..5139, 4999..5136, 5001..5138		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7

Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o4.ts	Method	TBLASTX:Soybean
Start	4828	End	5394
GI	5666795	Score	61
Exons	4828..4926, 5002..5139, 5194..5394		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o13.tw	Method	TBLASTX:Wheat
Start	5142	End	5454
GI	none	Score	192
Exons	5142..5318, 5194..5454		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o5.tm	Method	TBLASTX:Maize
Start	5647	End	5970
GI	none	Score	362
Exons	5647..5970, 5664..5957		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o12.tw	Method	TBLASTX:Wheat
Start	5650	End	6039
GI	none	Score	135
Exons	5650..5799, 5673..5798, 5917..6039, 5920..6039		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	5800	End	12219
GI	none	Score	54
Exons	5800..5916, 11652..12107, 11652..12188, 11656..12219		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	6082	End	11645
GI	none	Score	106
Exons	6082..6240, 6295..6411, 11019..11645, 11022..11144, 11131..11589		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.gs	Method	GENSCAN
Start	10590	End	16199
GI	none	Score	.53
Exons	10590..14621, 14652..15140, 15367..15395, 15434..16027, 16070..16199		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o2.np	Method	AAT/NAP
Start	10643	End	15143
GI	4680179	Score	5397
Exons	10643..14042, 14076..15143		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o8.tw	Method	TBLASTX:Wheat
Start	10686	End	11019
GI	none	Score	122
Exons	10686..11018, 10707..11015, 10750..11019		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	10866	End	11465
GI	none	Score	122
Exons	10866..11306, 10881..11144, 10882..11304, 11304..11465, 11310..11462, 11311..11463		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	11514	End	11806
GI	none	Score	216
Exons	11514..11804, 11518..11805, 11618..11806		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	11604	End	11864
GI	none	Score	159
Exons	11604..11864, 11605..11859		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	11628	End	11945
GI	none	Score	78
Exons	11628..11771, 11629..11769, 11772..11945		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.tw	Method	TBLASTX:Wheat
Start	12222	End	12644
GI	none	Score	352
Exons	12222..12644, 12223..12612		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.ts	Method	TBLASTX:Soybean
Start	12393	End	12638
GI	none	Score	66
Exons	12393..12638, 12493..12621		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o14.tw	Method	TBLASTX:Wheat
Start	12999	End	13118
GI	none	Score	135
Exons	12999..13118, 13000..13110		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o11.tw	Method	TBLASTX:Wheat
Start	13593	End	14015
GI	none	Score	72
Exons	13593..13760, 13648..13761, 13806..14015, 13807..13959		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o9.tm	Method	TBLASTX:Maize
Start	13696	End	14051
GI	none	Score	44
Exons	13696..13788, 13698..14051, 13882..13959		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o7.tm	Method	TBLASTX:Maize
Start	14379	End	14684
GI	none	Score	82
Exons	14379..14684, 14554..14670		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.np	Method	AAT/NAP
Start	14384	End	16199
GI	6983858	Score	143
Exons	14384..14433, 15629..16199		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o10.tw	Method	TBLASTX:Wheat
Start	14565	End	14927
GI	none	Score	140

Exons	14565..14927, 14566..14925		
Seq. No.	52648	Seq. ID	OJ991117_10.0421.C7
Gene No.	111112	Strand	-
Start	10590	End	16199
Name	OJ991117_10.0421.C7.o3.gp	Method	AAT/GAP
Start	15470	End	15924
GI	95437_1.R1084	Score	786
Exons	15470..15924		
GI Descrip.	'4512226/dbj\|AB014738.1\|AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		
Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111113	Strand	+
Start	1	End	173
Name	OJ991117_10.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	173
GI	4680186	Score	188
Exons	1..173		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111114	Strand	+
Start	863	End	1445
Name	OJ991117_10.0421.C8.o2.np	Method	AAT/NAP
Start	863	End	1445
GI	5852180	Score	565
Exons	863..979, 1031..1445		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111115	Strand	+
Start	4902	End	11704
Name	OJ991117_10.0421.C8.o2.gs	Method	GENSCAN
Start	4902	End	11704
GI	none	Score	.44
Exons	4902..4979, 5778..5886, 7902..7990, 8803..8958, 10758..10934, 11507..11704		
Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111116	Strand	+
Start	11935	End	14020
Name	OJ991117_10.0421.C8.o3.gs	Method	GENSCAN
Start	11935	End	14020
GI	none	Score	.64
Exons	11935..12525, 12897..13070, 13112..14020		
Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111116	Strand	+
Start	11935	End	14020
Name	OJ991117_10.0421.C8.o6.np	Method	AAT/NAP
Start	12373	End	14020
GI	5306060	Score	1409
Exons	12373..12525, 12897..14020		
GI Descrip.	(AF156977) (1,4)-beta-xylan endohydrolase [Triticum aestivum]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111117	Strand	+
Start	18755	End	19316
Name	OJ991117_10.0421.C8.o5.gs	Method	GENSCAN
Start	18755	End	19316
GI	none	Score	.51
Exons	18755..18830, 18865..19034, 19135..19209, 19292..19316		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111118	Strand	-
Start	1	End	101
Name	OJ991117_10.0421.C8.o1.gp	Method	AAT/GAP
Start	1	End	101
GI	uC-osflcyp033a04b1	Score	182
Exons	1..101		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111119	Strand	-
Start	520	End	5419
Name	OJ991117_10.0421.C8.o1.gs	Method	GENSCAN
Start	520	End	3728
GI	none	Score	.44
Exons	520..627, 884..1006, 1189..1726, 2176..2373, 2467..3728		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111119	Strand	-
Start	520	End	5419
Name	OJ991117_10.0421.C8.o3.np	Method	AAT/NAP
Start	945	End	3728
GI	5803259	Score	2232
Exons	945..1055, 1591..1835, 2181..2373, 2467..3728		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111119	Strand	-
Start	520	End	5419
Name	OJ991117_10.0421.C8.o4.np	Method	AAT/NAP
Start	2960	End	5419
GI	5922623	Score	360
Exons	2960..2987, 4572..4647, 4815..4962, 5339..5419		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111120	Strand	-
Start	5415	End	5584
Name	OJ991117_10.0421.C8.o5.np	Method	AAT/NAP
Start	5415	End	5584
GI	4493973	Score	118
Exons	5415..5584		
GI Descrip.	(AL034559) predicted using hexExon; MAL3P7.14 (PFC0925w), Hypothetical protein, len: 489 aa [Plasmodium falciparum]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8

Gene No.	111121	Strand	-
Start	15564	End	16604
Name	OJ991117_10.0421.C8.o7.np	Method	AAT/NAP
Start	15462	End	15772
GI	131225	Score	79
Exons	15462..15772		
GI Descrip.	PHOTOSYSTEM I REACTION CENTRE SUBUNIT XI PRECURSOR (SUBUNIT V) (PSI-L) gi\|100605\|pir\|\|A39759 photosystem I 18K protein precursor - barley gi\|167087 (M61146) photosystem I hydrophobic protein [Hordeum vulgare]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111121	Strand	-
Start	15564	End	16604
Name	OJ991117_10.0421.C8.o4.gs	Method	GENSCAN
Start	15564	End	16604
GI	none	Score	.53
Exons	15564..15636, 16029..16257, 16580..16604		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111122	Strand	-
Start	18075	End	18503
Name	OJ991117_10.0421.C8.o8.np	Method	AAT/NAP
Start	18075	End	18503
GI	6539570	Score	236
Exons	18075..18141, 18301..18503		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	12981	End	13300
GI	none	Score	109
Exons	12981..13082, 12986..13081, 13088..13300, 13090..13266		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	13117	End	13348
GI	none	Score	298
Exons	13117..13266, 13118..13348, 13318..13344		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	13259	End	13687
GI	none	Score	257
Exons	13259..13573, 13628..13687		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	13316	End	13954

GI	none	Score	215
Exons	13316..13573, 13628..13954, 13708..13953		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	13655	End	14011
GI	none	Score	440
Exons	13655..14011, 13655..13726, 13708..14001		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	13697	End	14011
GI	none	Score	249
Exons	13697..14011, 13699..13905		

Seq. No.	52649	Seq. ID	OJ991117_10.0421.C8
Gene No.	111123	Strand	-
Start	18630	End	18705
Name	OJ991117_10.0421.C8.o9.np	Method	AAT/NAP
Start	18630	End	18705
GI	6630699	Score	71
Exons	18630..18705		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	52650	Seq. ID	OJ991117_10.0421.C9
Gene No.	111124	Strand	+
Start	298	End	568
Name	OJ991117_10.0421.C9.o1.gs	Method	GENSCAN
Start	298	End	568
GI	none	Score	.86
Exons	298..568		

Seq. No.	52650	Seq. ID	OJ991117_10.0421.C9
Gene No.	111125	Strand	+
Start	540	End	2208
Name	OJ991117_10.0421.C9.o1.np	Method	AAT/NAP
Start	540	End	2208
GI	5922620	Score	378
Exons	540..593, 1751..2076, 2113..2208		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6016853\|dbj\|BAA85196.1\| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52650	Seq. ID	OJ991117_10.0421.C9
Gene No.	111126	Strand	-
Start	1437	End	1549
Name	OJ991117_10.0421.C9.o2.gs	Method	GENSCAN
Start	1437	End	1549
GI	none	Score	.84

Exons	1437..1549		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111127	Strand	+
Start	301	End	1228
Name	OJ991117_10.0421.C10.o1.gs	Method	GENSCAN
Start	301	End	1228
GI	none	Score	.42
Exons	301..470, 1115..1228		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111128	Strand	+
Start	16170	End	18960
Name	OJ991117_10.0421.C10.o6.np	Method	AAT/NAP
Start	16170	End	18960
GI	5902444	Score	2151
Exons	16170..17892, 18744..18960		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111129	Strand	-
Start	809	End	1237
Name	OJ991117_10.0421.C10.o1.np	Method	AAT/NAP
Start	809	End	1237
GI	6539570	Score	234
Exons	809..875, 1035..1237		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111130	Strand	-
Start	1564	End	3452
Name	OJ991117_10.0421.C10.o2.np	Method	AAT/NAP
Start	1364	End	2708
GI	6630699	Score	80
Exons	1364..1446, 2537..2708		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111130	Strand	-
Start	1564	End	3452
Name	OJ991117_10.0421.C10.o2.gs	Method	GENSCAN
Start	1564	End	3452
GI	none	Score	.46
Exons	1564..1628, 2243..3452		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111130	Strand	-
Start	1564	End	3452
Name	OJ991117_10.0421.C10.o3.np	Method	AAT/NAP
Start	1854	End	3054
GI	6997177	Score	824
Exons	1854..3054		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10

Gene No.	111131	Strand	-
Start	6148	End	8837
Name	OJ991117_10.0421.C10.o3.gs	Method	GENSCAN
Start	6148	End	8837
GI	none	Score	.84
Exons	6148..7410, 7676..7691, 8089..8837		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111131	Strand	-
Start	6148	End	8837
Name	OJ991117_10.0421.C10.o4.np	Method	AAT/NAP
Start	6190	End	8822
GI	6016732	Score	1210
Exons	6190..7410, 8089..8822		
GI Descrip.	(AC009325) hypothetical protein [Arabidopsis thaliana] gi\|6091719\|gb\|AAF03431.1\|AC010797_7 (AC010797) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111132	Strand	-
Start	12637	End	13465
Name	OJ991117_10.0421.C10.o5.np	Method	AAT/NAP
Start	12637	End	13465
GI	6063554	Score	210
Exons	12637..12811, 13437..13465		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	2019	End	2457
GI	none	Score	65
Exons	2019..2084, 2064..2126, 2124..2456, 2125..2265, 2196..2453, 2296..2457		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	2031	End	2445
GI	none	Score	117
Exons	2031..2267, 2031..2267, 2262..2438, 2262..2444, 2302..2445		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o4.tw	Method	TBLASTX:Wheat
Start	2445	End	2627
GI	none	Score	115
Exons	2445..2627, 2470..2619		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646

Name	OJ991117_10.0421.C10.o5.tm	Method	TBLASTX:Maize
Start	2463	End	2667
GI	none	Score	92
Exons	2463..2666, 2463..2666, 2464..2667		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	6173	End	7212
GI	none	Score	73
Exons	6173..6241, 6193..6240, 6242..6283, 6412..6555, 6515..6556, 6632..6706, 6641..6718, 6730..6855, 6779..6856, 6860..7141, 6860..7012, 6862..7134, 7079..7141, 7162..7212, 7174..7212		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	6787	End	7105
GI	none	Score	219
Exons	6787..7104, 6788..7105		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o3.tw	Method	TBLASTX:Wheat
Start	6790	End	7147
GI	none	Score	47
Exons	6790..6966, 6791..6856, 6862..7146, 6863..7147		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	7300	End	8522
GI	none	Score	107
Exons	7300..7416, 7301..7414, 8083..8163, 8087..8155, 8196..8279, 8202..8288, 8204..8287, 8232..8381, 8270..8380, 8273..8398, 8313..8522, 8331..8450		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	7339	End	8813
GI	none	Score	97
Exons	7339..7416, 8083..8163, 8193..8522, 8289..8444, 8629..8676, 8637..8813, 8734..8808		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o4.tm	Method	TBLASTX:Maize
Start	8562	End	8810
GI	none	Score	49
Exons	8562..8810, 8629..8676, 8731..8808		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	8629	End	8825
GI	none	Score	138
Exons	8629..8808, 8637..8825		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o2.tw	Method	TBLASTX:Wheat
Start	17487	End	17888
GI	none	Score	276
Exons	17487..17888		

Seq. No.	52651	Seq. ID	OJ991117_10.0421.C10
Gene No.	111133	Strand	-
Start	18184	End	18646
Name	OJ991117_10.0421.C10.o5.gs	Method	GENSCAN
Start	18184	End	18646
GI	none	Score	.87
Exons	18184..18230, 18637..18646		

Seq. No.	52652	Seq. ID	OJ991117_13.0421.C1
Gene No.	111134	Strand	+
Start	215	End	268
Name	OJ991117_13.0421.C1.o1.gp	Method	AAT/GAP
Start	215	End	268
GI	3759960	Score	57
Exons	215..268		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111135	Strand	+
Start	562	End	702
Name	OJ991117_13.0421.C2.o1.gs	Method	GENSCAN
Start	562	End	702
GI	none	Score	.54
Exons	562..702		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111136	Strand	+
Start	1852	End	2337
Name	OJ991117_13.0421.C2.o2.gs	Method	GENSCAN
Start	1852	End	2337
GI	none	Score	.66
Exons	1852..1914, 1976..2072, 2189..2337		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111137	Strand	+
Start	4488	End	9225
Name	OJ991117_13.0421.C2.o1.np	Method	AAT/NAP
Start	3893	End	9038
GI	2342682	Score	790
Exons	3893..3994, 6184..6273, 6960..7078, 7599..7759, 7842..8015, 8205..8268, 8354..8423, 8904..9038		

GI Descrip. (AC000106) Contains similarity to Rattus AMP-activated protein kinase (gb|X95577). [Arabidopsis thaliana]

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111137	Strand	+
Start	4488	End	9225
Name	OJ991117_13.0421.C2.o3.gs	Method	GENSCAN
Start	4488	End	9080
GI	none	Score	.86
Exons	4488..4499, 5166..5300, 6960..7091, 7615..7759, 7842..8015, 8205..8268, 8354..8423, 8904..9080		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111137	Strand	+
Start	4488	End	9225
Name	OJ991117_13.0421.C2.o1.gp	Method	AAT/GAP
Start	7603	End	9225
GI	36420_1.R1084	Score	1260
Exons	7603..7759, 7842..8015, 8205..8268, 8354..8423, 8904..9021, 9113..9225		

GI Descrip. '2342682 4.0e-79 (AC000106) Contains similarity to Rattus AMP-activated protein kinase (gb_X95577). [Arabidopsis thaliana]'

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111138	Strand	+
Start	10209	End	12356
Name	OJ991117_13.0421.C2.o2.np	Method	AAT/NAP
Start	10209	End	12136
GI	134034	Score	615
Exons	10209..10359, 10539..10642, 11407..11823, 11903..12136		

GI Descrip. 30S RIBOSOMAL PROTEIN S30, CHLOROPLAST PRECURSOR (CS-S5) (CS5) (S22) (RIBOSOMAL PROTEIN 1) (PSRP-1) gi|279640|pir||R3SPS5 ribosomal protein CS-S22 precursor, chloroplast - spinach gi|12316|emb|CAA41960| (X59270) chloroplast ribosomal protein S22 [Spinacia oleracea] gi|18031|emb|CAA33403| (X15344) spinach S22 r-protein [Spinacia oleracea]

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111138	Strand	+
Start	10209	End	12356
Name	OJ991117_13.0421.C2.o2.gp	Method	AAT/GAP
Start	10460	End	12356
GI	1312_1.R1084	Score	1956
Exons	10460..10642, 11407..11826, 11903..12356		

GI Descrip. '170131 3.0e-65 (M55322) ribosomal protein 30S subunit [Spinacia oleracea]'

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111138	Strand	+
Start	10209	End	12356
Name	OJ991117_13.0421.C2.o5.gs	Method	GENSCAN
Start	11373	End	12139
GI	none	Score	.82
Exons	11373..11381, 11407..11826, 11903..12139		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2

Gene No.	111139	Strand	+
Start	18955	End	21884
Name	OJ991117_13.0421.C2.o8.gs	Method	GENSCAN
Start	18955	End	21884
GI	none	Score	.92
Exons	18955..19170, 21789..21884		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111140	Strand	+
Start	28572	End	30174
Name	OJ991117_13.0421.C2.o3.gp	Method	AAT/GAP
Start	28572	End	30174
GI	1016_1.R1084	Score	3165
Exons	28572..30174		
GI Descrip.	'1854637 0.0e+00 (U50333) gibberellin C-20 oxidase [Oryza sativa]'		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111140	Strand	+
Start	28572	End	30174
Name	OJ991117_13.0421.C2.o3.np	Method	AAT/NAP
Start	28743	End	29858
GI	7433224	Score	1925
Exons	28743..29858		
GI Descrip.	probable gibberellin C-20 oxidase (EC 1.14.11.-) - rice gi\|1854637\|gb\|AAB48239.1\| (U50333) gibberellin C-20 oxidase [Oryza sativa]		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111141	Strand	-
Start	12434	End	13745
Name	OJ991117_13.0421.C2.o6.gs	Method	GENSCAN
Start	12434	End	13745
GI	none	Score	.75
Exons	12434..12476, 12795..13004, 13078..13133, 13255..13410, 13524..13745		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o7.tm	Method	TBLASTX:Maize
Start	5153	End	7878
GI	none	Score	99
Exons	5153..5302, 5154..5303, 5164..5301, 5165..5302, 5375..5437, 5377..5442, 6180..6275, 6181..6276, 6942..7097, 6959..7087, 6963..7091, 7600..7761, 7608..7763, 7843..7878, 7844..7873		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o2.ts	Method	TBLASTX:Soybean
Start	7636	End	8019
GI	none	Score	166
Exons	7636..7767, 7638..7766, 7840..8019, 7841..8014		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-

Start	36211	End	36331
Name	OJ991117_13.0421.C2.o8.tm	Method	TBLASTX:Maize
Start	7879	End	8425
GI	none	Score	201
Exons	7879..8013, 7880..8026, 7880..8017, 8019..8048, 8020..8049, 8175..8255, 8178..8267, 8180..8266, 8350..8424, 8352..8423, 8354..8425		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o4.ts	Method	TBLASTX:Soybean
Start	8231	End	9207
GI	none	Score	42
Exons	8231..8260, 8352..8423, 8874..9020, 8901..9023, 8903..9061, 9111..9197, 9112..9207		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	8889	End	9232
GI	none	Score	222
Exons	8889..9023, 8889..9020, 8900..9061, 9111..9200, 9112..9201, 9113..9232		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	10483	End	11639
GI	none	Score	36
Exons	10483..10506, 10487..10507, 10555..10626, 10589..10645, 11404..11637, 11445..11639		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o5.ts	Method	TBLASTX:Soybean
Start	10589	End	11607
GI	none	Score	79
Exons	10589..10645, 11356..11514, 11445..11519, 11508..11603, 11509..11607		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o2.tc	Method	TBLASTX:Cress
Start	11499	End	12093
GI	none	Score	167
Exons	11499..11633, 11500..11637, 11900..12091, 11905..12078, 11980..12093		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o6.ts	Method	TBLASTX:Soybean

Start	11900	End	12091
GI	none	Score	191
Exons	11900..12049, 11902..12048, 11993..12091		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o6.tm	Method	TBLASTX:Maize
Start	11908	End	12079
GI	none	Score	252
Exons	11908..12078, 11909..12079		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	28779	End	29824
GI	none	Score	72
Exons	28779..28868, 28926..29159, 28937..29167, 29244..29336, 29328..29822, 29343..29576, 29372..29662, 29738..29824		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	28779	End	29162
GI	none	Score	127
Exons	28779..28907, 28779..28892, 28875..29162, 28919..29155		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o3.ts	Method	TBLASTX:Soybean
Start	28913	End	29165
GI	none	Score	300
Exons	28913..29149, 28914..29165		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	29238	End	29822
GI	none	Score	87
Exons	29238..29327, 29324..29662, 29349..29822, 29741..29821		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o5.tm	Method	TBLASTX:Maize
Start	29510	End	29822
GI	none	Score	210
Exons	29510..29662, 29511..29717, 29721..29822, 29738..29809		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o2.tw	Method	TBLASTX:Wheat

Start	30620	End	31009
GI	none	Score	80
Exons	30620..30799, 30847..30990, 30848..31009		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o4.tm	Method	TBLASTX:Maize
Start	30948	End	31228
GI	none	Score	68
Exons	30948..31073, 30949..31146, 30953..31228		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	31016	End	31417
GI	none	Score	121
Exons	31016..31165, 31244..31417		

Seq. No.	52653	Seq. ID	OJ991117_13.0421.C2
Gene No.	111142	Strand	-
Start	36211	End	36331
Name	OJ991117_13.0421.C2.o12.gs	Method	GENSCAN
Start	36211	End	36331
GI	none	Score	.85
Exons	36211..36331		

Seq. No.	52654	Seq. ID	OJ991117_13.0421.C3
Gene No.	111143	Strand	-
Start	137	End	232
Name	OJ991117_13.0421.C3.o1.gp	Method	AAT/GAP
Start	137	End	232
GI	LIB3477-003-P1-K1-E9	Score	144
Exons	137..232		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111144	Strand	+
Start	1	End	74
Name	OJ991117_12.0421.C1.o1.gp	Method	AAT/GAP
Start	1	End	74
GI	3760973	Score	125
Exons	1..74		
GI Descrip.	3402817/emb\|CAA07704\| 2.0e-19 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111145	Strand	+
Start	4075	End	6025
Name	OJ991117_12.0421.C1.o2.gs	Method	GENSCAN
Start	4075	End	5015
GI	none	Score	.72
Exons	4075..4491, 4602..4791, 4864..5015		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111145	Strand	+
Start	4075	End	6025
Name	OJ991117_12.0421.C1.o2.np	Method	AAT/NAP
Start	4512	End	6025
GI	5042424	Score	265
Exons	4512..4791, 5906..6025		
GI Descrip.	(AC006193) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111146	Strand	-
Start	117	End	3068
Name	OJ991117_12.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	6	End	2083
GI	none	Score	51
Exons	6..59, 13..60, 98..145, 108..146, 109..144, 245..319, 249..320, 249..320, 253..321, 1787..1912, 1790..1924, 1852..1914, 2042..2083, 2045..2080		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111146	Strand	-
Start	117	End	3068
Name	OJ991117_12.0421.C1.o1.np	Method	AAT/NAP
Start	117	End	2088
GI	6912488	Score	255
Exons	117..146, 248..320, 1788..1911, 2043..2088		
GI Descrip.	U6 snRNA-associated Sm-like protein gi\|5262860\|emb\|CAB45868.1\| (AJ238097) Lsm5 protein [Homo sapiens] gi\|5919151\|gb\|AAD56229.1\|AF182291_1 (AF182291) U6 snRNA-associated Sm-like protein LSm5 [Homo sapiens]		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111146	Strand	-
Start	117	End	3068
Name	OJ991117_12.0421.C1.o1.ts	Method	TBLASTX:Soybean
Start	118	End	2070
GI	none	Score	37
Exons	118..144, 126..146, 245..319, 249..320, 1784..1912, 1788..1913, 1790..1924, 1833..1913, 1852..1914, 2044..2070		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111146	Strand	-
Start	117	End	3068
Name	OJ991117_12.0421.C1.o1.gs	Method	GENSCAN
Start	198	End	3068
GI	none	Score	.83
Exons	198..320, 1788..1911, 2043..2142, 2620..2727, 2804..2916, 3017..3068		

Seq. No.	52655	Seq. ID	OJ991117_12.0421.C1
Gene No.	111147	Strand	
Start	4559	End	6025
Name	OJ991117_12.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	4559	End	6025
GI	none	Score	318
Exons	4559..4789, 4560..4796, 5904..5996, 5905..5991, 5992..6024, 5993..6025		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111148	Strand	+
Start	1	End	731
Name	OJ991117_12.0421.C2.o1.gp	Method	AAT/GAP
Start	1	End	731
GI	22646_1.R1084	Score	1454
Exons	1..731		
GI Descrip.	'5042424/gb\|AAD38263.1\|AC006193_19 2.0e-43 (AC006193) Hypothetical Protein [Arabidopsis thaliana]'		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111148	Strand	+
Start	1	End	731
Name	OJ991117_12.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	426
GI	5042424	Score	384
Exons	1..426		
GI Descrip.	(AC006193) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111148	Strand	+
Start	1	End	731
Name	OJ991117_12.0421.C2.o1.gs	Method	GENSCAN
Start	43	End	420
GI	none	Score	.83
Exons	43..420		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	258
GI	none	Score	372
Exons	1..258, 3..257		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	34	End	440
GI	none	Score	495
Exons	34..384, 36..383, 42..440		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o2.gp	Method	AAT/GAP
Start	1054	End	1885
GI	LIB3432-023-P1-K1-D4	Score	830
Exons	1054..1408, 1787..1885		
GI Descrip.	'3702632/emb\|CAA21225\| 2.0e-10 (AL031824) putative transcriptional regulator [Schizosaccharomyces pombe] >gi_3859080_emb_CAA21957_ (AL033406) putative alcohol dehydrogenase repressor protein [Schizosaccharomyces pombe]'		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2

Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	1084	End	1259
GI	none	Score	152
Exons	1084..1128, 1125..1250, 1127..1258, 1128..1259		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o2.gs	Method	GENSCAN
Start	1112	End	1934
GI	none	Score	.86
Exons	1112..1408, 1787..1934		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	1127	End	1292
GI	none	Score	111
Exons	1127..1291, 1140..1292		

Seq. No.	52656	Seq. ID	OJ991117_12.0421.C2
Gene No.	111149	Strand	-
Start	1054	End	1941
Name	OJ991117_12.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	1260	End	1941
GI	none	Score	195
Exons	1260..1409, 1260..1409, 1261..1416, 1778..1933, 1782..1934, 1784..1936, 1831..1941, 1879..1941		

Seq. No.	52657	Seq. ID	OJ991117_12.0421.C3
Gene No.	111150	Strand	-
Start	52	End	2628
Name	OJ991117_12.0421.C3.o1.gp	Method	AAT/GAP
Start	52	End	516
GI	none	Score	795
Exons	52..516		

Seq. No.	52657	Seq. ID	OJ991117_12.0421.C3
Gene No.	111150	Strand	-
Start	52	End	2628
Name	OJ991117_12.0421.C3.o1.gs	Method	GENSCAN
Start	389	End	2613
GI	none	Score	.81
Exons	389..498, 636..757, 1401..1460, 2078..2141, 2428..2613		

Seq. No.	52657	Seq. ID	OJ991117_12.0421.C3
Gene No.	111150	Strand	-
Start	52	End	2628
Name	OJ991117_12.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	636	End	1942
GI	none	Score	155
Exons	636..758, 636..740, 637..759, 638..760, 638..760, 1313..1402, 1329..1403, 1330..1419, 1892..1942, 1892..1942		

Seq. No.	52657	Seq. ID	OJ991117_12.0421.C3
Gene No.	111150	Strand	-
Start	52	End	2628
Name	OJ991117_12.0421.C3.o2.gp	Method	AAT/GAP
Start	1318	End	2628
GI	2428531	Score	784
Exons	1318..1400, 1893..1942, 2078..2127, 2267..2346, 2428..2628		

Seq. No.	52658	Seq. ID	OJ991117_12.0421.C4
Gene No.	111151	Strand	+
Start	2148	End	2368
Name	OJ991117_12.0421.C4.o1.gs	Method	GENSCAN
Start	2148	End	2368
GI	none	Score	.82
Exons	2148..2175, 2303..2368		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111152	Strand	+
Start	376	End	4800
Name	OJ991117_12.0421.C5.o1.gs	Method	GENSCAN
Start	376	End	4800
GI	none	Score	.4
Exons	376..685, 969..1047, 1052..1185, 2562..4295, 4579..4657, 4701..4800		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111152	Strand	+
Start	376	End	4800
Name	OJ991117_12.0421.C5.o1.np	Method	AAT/NAP
Start	376	End	4697
GI	6815052	Score	2318
Exons	376..529, 611..685, 969..1086, 1384..1483, 2343..2435, 3218..3353, 3402..4139, 4221..4295, 4579..4697		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111153	Strand	+
Start	8184	End	11287
Name	OJ991117_12.0421.C5.o3.gs	Method	GENSCAN
Start	8184	End	11185
GI	none	Score	.88
Exons	8184..8453, 8933..9775, 9849..10052, 10148..10302, 11075..11185		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111153	Strand	+
Start	8184	End	11287
Name	OJ991117_12.0421.C5.o2.np	Method	AAT/NAP
Start	8438	End	11287
GI	6755336	Score	80
Exons	8438..8508, 8951..9073, 11068..11196, 11244..11287		
GI Descrip.	ring finger protein 12 gi\|4959044\|gb\|AAD34209.1\|AF069992_1 (AF069992) LIM domain interacting RING finger protein [Mus musculus]		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111154	Strand	-
Start	5771	End	6387

Name	OJ991117_12.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	2669	End	3163
GI	none	Score	313
Exons	2669..3163, 2693..2959, 2905..3063		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111154	Strand	-
Start	5771	End	6387
Name	OJ991117_12.0421.C5.o2.gs	Method	GENSCAN
Start	5771	End	6387
GI	none	Score	.68
Exons	5771..5841, 6006..6387		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111155	Strand	
Start	9122	End	9380
Name	OJ991117_12.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	9122	End	9380
GI	none	Score	303
Exons	9122..9370, 9132..9380, 9132..9344, 9139..9369		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111156	Strand	
Start	9403	End	10185
Name	OJ991117_12.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	9403	End	10185
GI	none	Score	389
Exons	9403..9687, 9404..9688, 9647..9763, 9707..9811, 9723..9764, 9724..9765, 9846..9887, 9847..9903, 9877..10053, 9897..10067, 9899..10054, 10143..10184, 10147..10185, 10147..10185		

Seq. No.	52659	Seq. ID	OJ991117_12.0421.C5
Gene No.	111157	Strand	
Start	10186	End	11187
Name	OJ991117_12.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	10186	End	11187
GI	none	Score	122
Exons	10186..10320, 10186..10332, 11073..11186, 11074..11187, 11075..11179, 11076..11186		

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.gs	Method	GENSCAN
Start	147	End	3350
GI	none	Score	.79
Exons	147..295, 332..426, 1859..2044, 2138..2219, 2609..2740, 2838..2910, 3013..3133, 3233..3350		

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	1932	End	3353
GI	none	Score	198
Exons	1932..2045, 1949..2044, 2138..2233, 2139..2234, 2275..2409, 2318..2422, 2496..2537, 2506..2535, 2627..2740, 2632..2739,		

2835..2912, 2835..2912, 3006..3134, 3010..3129, 3011..3133,
3228..3350, 3230..3349, 3231..3353

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	1932	End	3353
GI	none	Score	181

Exons 1932..2045, 1949..2044, 2139..2234, 2141..2233, 2317..2409,
2318..2422, 2496..2534, 2506..2535, 2512..2589, 2631..2717,
2632..2739, 2632..2739, 2633..2740, 2835..2912, 2835..2909,
2837..2911, 3006..3134, 3011..3133, 3228..3350, 3230..3349,
3240..3353

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.np	Method	AAT/NAP
Start	1935	End	3810
GI	7488728	Score	955

Exons 1935..2044, 2138..2219, 2318..2408, 2507..2536, 2631..2740,
2838..2910, 3013..3133, 3233..3350, 3790..3810

GI Descrip. cdc2-like protein kinase cdc2MsC - alfalfa
gi|1806140|emb|CAA65979.1| (X97314) cdc2MsC [Medicago sativa]

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	1952	End	2870
GI	none	Score	123

Exons 1952..1978, 1967..2044, 1977..2045, 2139..2234, 2141..2233,
2317..2421, 2318..2422, 2496..2534, 2506..2535, 2512..2589,
2631..2702, 2635..2739, 2635..2739, 2636..2740, 2636..2740,
2835..2870, 2837..2863

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	2636	End	3284
GI	none	Score	105

Exons 2636..2740, 2835..2912, 2835..2912, 3006..3134, 3011..3130,
3228..3284

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+
Start	147	End	3810
Name	OJ991117_12.0421.C6.o2.tc	Method	TBLASTX:Cress
Start	2883	End	3377
GI	none	Score	53

Exons 2883..2912, 3006..3134, 3011..3133, 3031..3135, 3228..3350,
3230..3349, 3264..3377

Seq. No.	52660	Seq. ID	OJ991117_12.0421.C6
Gene No.	111158	Strand	+

Start	147	End	3810
Name	OJ991117_12.0421.C6.o1.gp	Method	AAT/GAP
Start	3059	End	3350
GI	2428291	Score	349
Exons	3059..3133, 3233..3350		
GI Descrip.	1806140/emb\|CAA65979\| 6.0e-45 (X97314) cdc2MsC [Medicago sativa]		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111159	Strand	+
Start	1	End	1568
Name	OJ991117_12.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	1420
GI	7488728	Score	762
Exons	1..70, 326..465, 541..598, 724..794, 898..1420		
GI Descrip.	cdc2-like protein kinase cdc2MsC - alfalfa gi\|1806140\|emb\|CAA65979.1\| (X97314) cdc2MsC [Medicago sativa]		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111159	Strand	+
Start	1	End	1568
Name	OJ991117_12.0421.C7.o1.gp	Method	AAT/GAP
Start	736	End	1147
GI	2443130	Score	571
Exons	736..794, 898..1147		
GI Descrip.	1806140/emb\|CAA65979\| 2.0e-28 (X97314) cdc2MsC [Medicago sativa]		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111159	Strand	+
Start	1	End	1568
Name	OJ991117_12.0421.C7.o1.gs	Method	GENSCAN
Start	1086	End	1568
GI	none	Score	.79
Exons	1086..1568		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111160	Strand	-
Start	1916	End	5371
Name	OJ991117_12.0421.C7.o2.gs	Method	GENSCAN
Start	1916	End	2989
GI	none	Score	1
Exons	1916..2989		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111160	Strand	-
Start	1916	End	5371
Name	OJ991117_12.0421.C7.o2.np	Method	AAT/NAP
Start	1979	End	5119
GI	3608155	Score	2767
Exons	1979..3933, 4018..5119		
GI Descrip.	(AC005314) putative pre-mRNA splicing factor RNA helicase [Arabidopsis thaliana]		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111160	Strand	-
Start	1916	End	5371
Name	OJ991117_12.0421.C7.o3.gs	Method	GENSCAN
Start	3065	End	5371

GI	none	Score	1
Exons	3065..5371		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	323	End	1063
GI	none	Score	185
Exons	323..415, 328..477, 329..463, 542..598, 709..786, 720..794, 721..792, 874..1062, 896..1039, 908..1063		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	323	End	1247
GI	none	Score	175
Exons	323..463, 323..418, 325..465, 542..598, 571..594, 671..787, 708..794, 721..792, 895..1041, 896..1042, 905..1042, 1061..1144, 1143..1214, 1147..1215, 1209..1247		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	323	End	1450
GI	none	Score	219
Exons	323..463, 324..464, 325..465, 530..598, 537..599, 571..597, 721..792, 721..792, 722..793, 723..794, 874..1074, 896..1081, 896..1090, 1088..1186, 1091..1144, 1095..1217, 1095..1214, 1186..1224, 1253..1420, 1272..1421, 1390..1449, 1403..1450		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	2027	End	3145
GI	none	Score	195
Exons	2027..2152, 2165..2293, 2321..2473, 2492..2551, 2585..3145, 2841..3140		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	2033	End	3949
GI	none	Score	76
Exons	2033..2299, 2055..2153, 2241..2279, 2321..2476, 2391..2480, 2492..2548, 2543..3280, 2556..2663, 2763..3281, 3284..3772, 3621..3773, 3776..3949, 3780..3935		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	2042	End	3454

GI	none	Score	63
Exons	2042..2152, 2052..2153, 2153..2281, 2306..2476, 2394..2483, 2559..2663, 2561..3103, 2763..3095, 3110..3280, 3111..3281, 3284..3454		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o3.ts	Method	TBLASTX:Soybean
Start	3425	End	3763
GI	none	Score	121
Exons	3425..3763, 3621..3755		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	3518	End	3943
GI	none	Score	80
Exons	3518..3571, 3560..3769, 3779..3943, 3780..3866		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o4.ts	Method	TBLASTX:Soybean
Start	3776	End	3949
GI	none	Score	85
Exons	3776..3949, 3777..3866		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	4023	End	4417
GI	none	Score	103
Exons	4023..4178, 4031..4177, 4232..4294, 4307..4417		

Seq. No.	52661	Seq. ID	OJ991117_12.0421.C7
Gene No.	111161	Strand	-
Start	8605	End	8795
Name	OJ991117_12.0421.C7.o5.gs	Method	GENSCAN
Start	8605	End	8795
GI	none	Score	.91
Exons	8605..8795		

Seq. No.	52662	Seq. ID	OJ991117_12.0421.C8
Gene No.	111162	Strand	-
Start	1	End	172
Name	OJ991117_12.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	172
GI	7523699	Score	204
Exons	1..172		
GI Descrip.	(AC011001) Similar to lipases [Arabidopsis thaliana]		

Seq. No.	52662	Seq. ID	OJ991117_12.0421.C8
Gene No.	111163	Strand	-
Start	73	End	175

Name	OJ991117_12.0421.C8.o1.gp	Method	AAT/GAP
Start	73	End	175
GI	LIB3434-055-P1-K1-F12	Score	171
Exons	73..175		
GI Descrip.	'1946364 5.0e-47 (U93215) lipase isolog [Arabidopsis thaliana]'		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111164	Strand	+
Start	904	End	1076
Name	OJ991117_12.0421.C9.o1.gs	Method	GENSCAN
Start	904	End	1076
GI	none	Score	.86
Exons	904..1076		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111165	Strand	+
Start	2293	End	2614
Name	OJ991117_12.0421.C9.o1.gp	Method	AAT/GAP
Start	2293	End	2614
GI	LIB3434-055-P1-K1-F12	Score	570
Exons	2293..2614		
GI Descrip.	'1946364 5.0e-47 (U93215) lipase isolog [Arabidopsis thaliana]'		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111166	Strand	+
Start	3399	End	10902
Name	OJ991117_12.0421.C9.o3.gs	Method	GENSCAN
Start	3399	End	10902
GI	none	Score	.7
Exons	3399..3766, 4300..4352, 4532..4555, 4753..4853, 8198..8495, 10325..10902		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111167	Strand	-
Start	2296	End	3731
Name	OJ991117_12.0421.C9.o2.gs	Method	GENSCAN
Start	2296	End	3309
GI	none	Score	.9
Exons	2296..3309		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111167	Strand	-
Start	2296	End	3731
Name	OJ991117_12.0421.C9.o1.np	Method	AAT/NAP
Start	2297	End	3731
GI	7523699	Score	1055
Exons	2297..3473, 3584..3731		
GI Descrip.	(AC011001) Similar to lipases [Arabidopsis thaliana]		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111167	Strand	-
Start	2296	End	3731
Name	OJ991117_12.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	2297	End	3357
GI	none	Score	137
Exons	2297..2425, 2329..2424, 2437..2616, 2438..2617, 2674..2745, 2687..2737, 2755..2898, 2807..2929, 2902..3150, 3023..3127,		

3112..3336, 3167..3331, 3316..3357

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111167	Strand	-
Start	2296	End	3731
Name	OJ991117_12.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	2300	End	3371
GI	none	Score	249
Exons	2300..2617, 2329..2616, 2674..3117, 2692..2793, 2807..3103, 3112..3150, 3166..3336, 3170..3331, 3331..3357, 3336..3371		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111167	Strand	-
Start	2296	End	3731
Name	OJ991117_12.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	2674	End	3333
GI	none	Score	134
Exons	2674..2745, 2932..3156, 3154..3333		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111168	Strand	
Start	8198	End	8467
Name	OJ991117_12.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	8198	End	8467
GI	none	Score	46
Exons	8198..8233, 8199..8222, 8219..8284, 8219..8467, 8277..8333, 8345..8443		

Seq. No.	52663	Seq. ID	OJ991117_12.0421.C9
Gene No.	111169	Strand	
Start	10563	End	11084
Name	OJ991117_12.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	10563	End	11084
GI	none	Score	154
Exons	10563..10775, 10563..10784, 10564..10785, 10749..10892, 10769..10828, 10774..10899, 10774..10899, 11016..11084, 11024..11083		

Seq. No.	52664	Seq. ID	OJ991117_12.0421.C10
Gene No.	111170	Strand	+
Start	619	End	2320
Name	OJ991117_12.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	571	End	1114
GI	none	Score	115
Exons	571..708, 805..939, 806..937, 962..1114, 982..1092		

Seq. No.	52664	Seq. ID	OJ991117_12.0421.C10
Gene No.	111170	Strand	+
Start	619	End	2320
Name	OJ991117_12.0421.C10.o1.gs	Method	GENSCAN
Start	619	End	2320
GI	none	Score	.92
Exons	619..705, 806..1249, 1605..1772, 2090..2320		

Seq. No.	52664	Seq. ID	OJ991117_12.0421.C10
Gene No.	111170	Strand	+
Start	619	End	2320

Name	OJ991117_12.0421.C10.o1.np	Method	AAT/NAP
Start	619	End	2320
GI	4587579	Score	552
Exons	619..705, 806..1249, 1605..1772, 2090..2320		
GI Descrip.	(AC006550) F10O3.1 [Arabidopsis thaliana]		

Seq. No.	52664	Seq. ID	OJ991117_12.0421.C10
Gene No.	111170	Strand	+
Start	619	End	2320
Name	OJ991117_12.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	1022	End	2320
GI	none	Score	336
Exons	1022..1252, 1025..1240, 1032..1241, 1604..1852, 1605..1769, 1610..1846, 2074..2202, 2083..2313, 2096..2317, 2255..2320		

Seq. No.	52664	Seq. ID	OJ991117_12.0421.C10
Gene No.	111170	Strand	+
Start	619	End	2320
Name	OJ991117_12.0421.C10.o1.gp	Method	AAT/GAP
Start	1143	End	2246
GI	LIB3431-060-P1-K1-D8	Score	803
Exons	1143..1249, 1605..1772, 2090..2246		
GI Descrip.	'4585924/gb\|AAD25584.1\|AC007211_6 2.0e-18 (AC007211) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52665	Seq. ID	OJ991117_12.0421.C11
Gene No.	111171	Strand	+
Start	1038	End	5241
Name	OJ991117_12.0421.C11.o1.gs	Method	GENSCAN
Start	1038	End	5241
GI	none	Score	.73
Exons	1038..1104, 1352..1389, 1661..1695, 2417..2502, 4763..5241		

Seq. No.	52665	Seq. ID	OJ991117_12.0421.C11
Gene No.	111172	Strand	+
Start	5199	End	7319
Name	OJ991117_12.0421.C11.o1.np	Method	AAT/NAP
Start	5199	End	7319
GI	7523517	Score	264
Exons	5199..5510, 5661..5709, 7282..7319		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52665	Seq. ID	OJ991117_12.0421.C11
Gene No.	111173	Strand	-
Start	1	End	242
Name	OJ991117_12.0421.C11.o1.gp	Method	AAT/GAP
Start	1	End	242
GI	LIB3431-060-P1-N1-D8	Score	469
Exons	1..242		
GI Descrip.	'3850577 6.0e-16 (AC005278) This gene may be cut off. [Arabidopsis thaliana]'		

Seq. No.	52665	Seq. ID	OJ991117_12.0421.C11
Gene No.	111174	Strand	
Start	7614	End	7874
Name	OJ991117_12.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	7614	End	7871

GI	none	Score	235
Exons	7614..7859, 7668..7871		

Seq. No.	52665	Seq. ID	OJ991117_12.0421.C11
Gene No.	111174	Strand	
Start	7614	End	7874
Name	OJ991117_12.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	7620	End	7874
GI	none	Score	189
Exons	7620..7874		

Seq. No.	52666	Seq. ID	OJ991117_12.0421.C14
Gene No.	111175	Strand	+
Start	308	End	615
Name	OJ991117_12.0421.C14.o1.gs	Method	GENSCAN
Start	308	End	615
GI	none	Score	.92
Exons	308..403, 589..615		

Seq. No.	52667	Seq. ID	OJ991117_12.0421.C15
Gene No.	111176	Strand	+
Start	1830	End	1934
Name	OJ991117_12.0421.C15.o1.gs	Method	GENSCAN
Start	1830	End	1934
GI	none	Score	.56
Exons	1830..1934		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111177	Strand	+
Start	4188	End	9093
Name	OJ991117_12.0421.C16.o1.np	Method	AAT/NAP
Start	4188	End	9093
GI	6539553	Score	4910
Exons	4188..7069, 9061..9093		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi\|6539590\|dbj\|BAA88206.1\| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111178	Strand	-
Start	1323	End	1532
Name	OJ991117_12.0421.C16.o1.gp	Method	AAT/GAP
Start	1323	End	1532
GI	none	Score	404
Exons	1323..1532		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o2.tw	Method	TBLASTX:Wheat
Start	4182	End	4569
GI	none	Score	357
Exons	4182..4568, 4193..4567, 4306..4569		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-

Start	5936	End	19388
Name	OJ991117_12.0421.C16.o3.tm	Method	TBLASTX:Maize
Start	4317	End	4630
GI	none	Score	362
Exons	4317..4628, 4325..4630		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	5129	End	5451
GI	none	Score	268
Exons	5129..5383, 5136..5450, 5156..5449, 5284..5451		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o3.ts	Method	TBLASTX:Soybean
Start	5484	End	5864
GI	none	Score	87
Exons	5484..5633, 5616..5864		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o4.tm	Method	TBLASTX:Maize
Start	5652	End	6086
GI	none	Score	303
Exons	5652..6086, 5861..6061		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o4.tw	Method	TBLASTX:Wheat
Start	5730	End	5921
GI	none	Score	275
Exons	5730..5921, 5730..5921		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	5874	End	6272
GI	none	Score	197
Exons	5874..6098, 5882..6052, 6099..6272, 6107..6145		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o2.tc	Method	TBLASTX:Cress
Start	5907	End	6296
GI	none	Score	112
Exons	5907..6089, 6102..6296		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388

Name	OJ991117_12.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	5922	End	6677
GI	none	Score	634
Exons	5922..6386, 5930..6409, 6430..6660, 6438..6677, 6460..6657, 6518..6676		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o2.np	Method	AAT/NAP
Start	5936	End	11072
GI	7340881	Score	605
Exons	5936..5958, 8174..8252, 8508..8543, 8648..8756, 10149..10422, 10509..10624, 10717..10840, 10987..11072		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	6597	End	7054
GI	5509260	Score	360
Exons	6597..7028, 6698..6766, 6815..6910, 6820..7029, 6983..7054		
GI Descrip.	-		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o1.tc	Method	TBLASTX:Cress
Start	6690	End	6950
GI	none	Score	286
Exons	6690..6950		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o3.tw	Method	TBLASTX:Wheat
Start	6708	End	7028
GI	none	Score	280
Exons	6708..7028, 6729..7022		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o5.tm	Method	TBLASTX:Maize
Start	6731	End	7042
GI	none	Score	290
Exons	6731..6913, 6732..7028, 6867..7022, 6983..7042		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o4.gs	Method	GENSCAN
Start	10219	End	19292
GI	none	Score	.41
Exons	10219..10487, 10533..10624, 10717..10907, 11673..11846, 15294..15862, 16668..16779, 18093..18181, 18484..18566,		

19240..19292

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o3.np	Method	AAT/NAP
Start	11979	End	12603
GI	5777617	Score	65
Exons	11979..12129, 12446..12603		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	15163	End	15632
GI	none	Score	56
Exons	15163..15195, 15165..15200, 15294..15314, 15294..15422, 15297..15410, 15414..15548, 15414..15626, 15439..15627, 15506..15631, 15515..15631, 15591..15632		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o4.np	Method	AAT/NAP
Start	15219	End	19388
GI	2887500	Score	639
Exons	15219..15872, 15975..16027, 17244..17294, 17369..17442, 18093..18190, 18484..18566, 19240..19388		
GI Descrip.	(AC002339) putative AP2 domain transcription factor [Arabidopsis thaliana]		

Seq. No.	52668	Seq. ID	OJ991117_12.0421.C16
Gene No.	111179	Strand	-
Start	5936	End	19388
Name	OJ991117_12.0421.C16.o6.tm	Method	TBLASTX:Maize
Start	15739	End	19293
GI	none	Score	176
Exons	15739..15864, 15739..15861, 15741..15863, 15958..15999, 15969..15998, 16006..16044, 16006..16044, 17237..17296, 17244..17297, 17368..17442, 17371..17439, 18087..18188, 18091..18189, 18100..18189, 18485..18574, 18485..18586, 19236..19292, 19240..19293		

Seq. No.	52669	Seq. ID	OJ991117_12.0421.C18
Gene No.	111181	Strand	-
Start	49	End	726
Name	OJ991117_12.0421.C18.o1.gs	Method	GENSCAN
Start	49	End	726
GI	none	Score	.71
Exons	49..67, 206..726		

Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111182	Strand	+
Start	1551	End	1658
Name	OJ991117_12.0421.C19.o1.gs	Method	GENSCAN
Start	1551	End	1658

GI	none	Score	.9
Exons	1551..1658		
Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111183	Strand	-
Start	2162	End	6797
Name	OJ991117_12.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	4	End	507
GI	none	Score	291
Exons	4..507, 66..419		
Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111183	Strand	-
Start	2162	End	6797
Name	OJ991117_12.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	136	End	697
GI	none	Score	186
Exons	136..519, 443..697		
Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111183	Strand	-
Start	2162	End	6797
Name	OJ991117_12.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	286	End	718
GI	none	Score	106
Exons	286..495, 500..718, 532..696		
Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111183	Strand	-
Start	2162	End	6797
Name	OJ991117_12.0421.C19.o2.gs	Method	GENSCAN
Start	2162	End	6797
GI	none	Score	.77
Exons	2162..2304, 2614..2725, 2897..3012, 3037..3083, 6201..6424, 6444..6732, 6751..6797		
Seq. No.	52670	Seq. ID	OJ991117_12.0421.C19
Gene No.	111183	Strand	-
Start	2162	End	6797
Name	OJ991117_12.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	6097	End	6424
GI	none	Score	54
Exons	6097..6177, 6165..6257, 6248..6424, 6253..6420		
Seq. No.	52671	Seq. ID	OJ991117_12.0421.C20
Gene No.	111184	Strand	+
Start	9	End	2879
Name	OJ991117_12.0421.C20.o1.np	Method	AAT/NAP
Start	9	End	2879
GI	7340881	Score	201
Exons	9..233, 376..631, 688..786, 2136..2254, 2358..2400, 2791..2879		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		
Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111185	Strand	+
Start	60	End	2183
Name	OJ991117_12.0421.C21.o1.gs	Method	GENSCAN

Start	60	End	2183
GI	none	Score	.76
Exons	60..221, 1089..1134, 2067..2183		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111186	Strand	+
Start	3778	End	6301
Name	OJ991117_12.0421.C21.o2.gs	Method	GENSCAN
Start	3778	End	6301
GI	none	Score	.59
Exons	3778..3844, 4043..4180, 4248..4328, 5637..6301		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111187	Strand	+
Start	8401	End	12027
Name	OJ991117_12.0421.C21.o2.np	Method	AAT/NAP
Start	7857	End	8525
GI	6498423	Score	98
Exons	7857..8076, 8387..8525		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111187	Strand	+
Start	8401	End	12027
Name	OJ991117_12.0421.C21.o3.gs	Method	GENSCAN
Start	8401	End	11705
GI	none	Score	.5
Exons	8401..8749, 10362..10492, 10737..10917, 11398..11705		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111187	Strand	+
Start	8401	End	12027
Name	OJ991117_12.0421.C21.o3.np	Method	AAT/NAP
Start	9844	End	12027
GI	2459436	Score	208
Exons	9844..9931, 10803..10922, 11418..11705, 11973..12027		
GI Descrip.	(AC002332) unknown protein [Arabidopsis thaliana]		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111187	Strand	+
Start	8401	End	12027
Name	OJ991117_12.0421.C21.o1.gp	Method	AAT/GAP
Start	10379	End	11575
GI	4715698	Score	870
Exons	10379..10492, 10737..10917, 11416..11575		
GI Descrip.	4585924/gb\|AAD25584.1\|AC007211_6 2.0e-18 (AC007211) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111188	Strand	-
Start	2157	End	4296
Name	OJ991117_12.0421.C21.o1.np	Method	AAT/NAP
Start	2157	End	4296
GI	7523517	Score	262
Exons	2157..2196, 3786..3840, 3985..4296		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111189	Strand	
Start	10734	End	11735
Name	OJ991117_12.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	10734	End	11540
GI	none	Score	259
Exons	10734..10949, 10736..10909, 11421..11540, 11424..11540		

Seq. No.	52672	Seq. ID	OJ991117_12.0421.C21
Gene No.	111189	Strand	
Start	10734	End	11735
Name	OJ991117_12.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	11421	End	11735
GI	none	Score	181
Exons	11421..11630, 11421..11633, 11643..11735		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111190	Strand	+
Start	341	End	1091
Name	OJ991117_12.0421.C22.o1.gs	Method	GENSCAN
Start	341	End	817
GI	none	Score	.99
Exons	341..817		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111190	Strand	+
Start	341	End	1091
Name	OJ991117_12.0421.C22.o1.gp	Method	AAT/GAP
Start	620	End	1091
GI	91759_1.R1084	Score	836
Exons	620..1091		
GI Descrip.	'4585924/gb\|AAD25584.1\|AC007211_6 2.0e-18 (AC007211) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111191	Strand	-
Start	1684	End	2589
Name	OJ991117_12.0421.C22.o1.tw	Method	TBLASTX:Wheat
Start	340	End	646
GI	none	Score	412
Exons	340..630, 341..646, 455..646		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111191	Strand	-
Start	1684	End	2589
Name	OJ991117_12.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	341	End	625
GI	none	Score	57
Exons	341..400, 439..624, 440..625, 479..625		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111191	Strand	-
Start	1684	End	2589
Name	OJ991117_12.0421.C22.o1.tm	Method	TBLASTX:Maize
Start	495	End	655
GI	none	Score	144
Exons	495..629, 495..629, 496..642, 496..630, 497..655		

Seq. No.	52673	Seq. ID	OJ991117_12.0421.C22
Gene No.	111191	Strand	-
Start	1684	End	2589
Name	OJ991117_12.0421.C22.o2.gs	Method	GENSCAN
Start	1684	End	2589
GI	none	Score	.53
Exons	1684..1996, 2114..2589		

Seq. No.	52674	Seq. ID	OJ991117_19.0421.C1
Gene No.	111192	Strand	-
Start	30	End	737
Name	OJ991117_19.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	3	End	240
GI	none	Score	85
Exons	3..80, 81..239, 85..240		

Seq. No.	52674	Seq. ID	OJ991117_19.0421.C1
Gene No.	111192	Strand	-
Start	30	End	737
Name	OJ991117_19.0421.C1.o1.gs	Method	GENSCAN
Start	30	End	686
GI	none	Score	.82
Exons	30..297, 394..686		

Seq. No.	52674	Seq. ID	OJ991117_19.0421.C1
Gene No.	111192	Strand	-
Start	30	End	737
Name	OJ991117_19.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	51	End	404
GI	none	Score	159
Exons	51..80, 81..389, 81..404, 85..390		

Seq. No.	52674	Seq. ID	OJ991117_19.0421.C1
Gene No.	111192	Strand	-
Start	30	End	737
Name	OJ991117_19.0421.C1.o1.np	Method	AAT/NAP
Start	381	End	737
GI	5902444	Score	548
Exons	381..737		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	52674	Seq. ID	OJ991117_19.0421.C1
Gene No.	111192	Strand	-
Start	30	End	737
Name	OJ991117_19.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	561	End	737
GI	none	Score	111
Exons	561..737, 613..735, 626..736		

Seq. No.	52675	Seq. ID	OJ991117_19.0421.C8
Gene No.	111193	Strand	+
Start	2148	End	2636
Name	OJ991117_19.0421.C8.o2.gp	Method	AAT/GAP
Start	2148	End	2636
GI	none	Score	966
Exons	2148..2636		

Seq. No.	52675	Seq. ID	OJ991117_19.0421.C8
Gene No.	111194	Strand	-
Start	157	End	4107
Name	OJ991117_19.0421.C8.o1.gs	Method	GENSCAN
Start	157	End	4107
GI	none	Score	.5
Exons	157..253, 1602..1695, 1786..1912, 2154..2308, 2420..2528, 3005..3076, 3379..3408, 3975..4107		

Seq. No.	52675	Seq. ID	OJ991117_19.0421.C8
Gene No.	111194	Strand	-
Start	157	End	4107
Name	OJ991117_19.0421.C8.o1.gp	Method	AAT/GAP
Start	688	End	758
GI	uC-osflcyp158c04a1	Score	84
Exons	688..758		
GI Descrip.	'4581164/gb\|AAD24647.1\|AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	52676	Seq. ID	OJ991117_19.0421.C9
Gene No.	111195	Strand	+
Start	247	End	4967
Name	OJ991117_19.0421.C9.o1.gs	Method	GENSCAN
Start	247	End	4967
GI	none	Score	.65
Exons	247..256, 639..727, 2084..2286, 2380..2465, 3252..3377, 4092..4200, 4458..4600, 4692..4775, 4819..4967		

Seq. No.	52676	Seq. ID	OJ991117_19.0421.C9
Gene No.	111195	Strand	+
Start	247	End	4967
Name	OJ991117_19.0421.C9.o1.gp	Method	AAT/GAP
Start	3251	End	3540
GI	3759000	Score	392
Exons	3251..3540		

Seq. No.	52676	Seq. ID	OJ991117_19.0421.C9
Gene No.	111196	Strand	-
Start	3956	End	5011
Name	OJ991117_19.0421.C9.o1.np	Method	AAT/NAP
Start	3956	End	5011
GI	5295955	Score	358
Exons	3956..4617, 4697..5011		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	52677	Seq. ID	OJ991117_19.0421.C10
Gene No.	111197	Strand	-
Start	482	End	619
Name	OJ991117_19.0421.C10.o1.gs	Method	GENSCAN
Start	482	End	619
GI	none	Score	.41
Exons	482..619		

Seq. No.	52678	Seq. ID	OJ991117_19.0421.C12
Gene No.	111198	Strand	+

Start	218	End	1040
Name	OJ991117_19.0421.C12.o1.np	Method	AAT/NAP
Start	218	End	1040
GI	4587595	Score	287
Exons	218..824, 965..1040		
GI Descrip.	(AC006951) putative GDSL-motif lipase/hydrolase [Arabidopsis thaliana]		

Seq. No.	52678	Seq. ID	OJ991117_19.0421.C12
Gene No.	111198	Strand	+
Start	218	End	1040
Name	OJ991117_19.0421.C12.o1.gs	Method	GENSCAN
Start	232	End	750
GI	none	Score	.64
Exons	232..750		

Seq. No.	52678	Seq. ID	OJ991117_19.0421.C12
Gene No.	111198	Strand	+
Start	218	End	1040
Name	OJ991117_19.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	277	End	729
GI	none	Score	90
Exons	277..381, 316..432, 448..582, 496..570, 512..583, 555..716, 556..729		

Seq. No.	52678	Seq. ID	OJ991117_19.0421.C12
Gene No.	111198	Strand	+
Start	218	End	1040
Name	OJ991117_19.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	295	End	717
GI	none	Score	101
Exons	295..429, 493..717, 498..650		

Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111199	Strand	+
Start	1	End	5450
Name	OJ991117_19.0421.C15.o2.np	Method	AAT/NAP
Start	1	End	3960
GI	5852180	Score	630
Exons	1..84, 209..336, 1593..1658, 2645..2768, 2820..3224, 3921..3960		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111199	Strand	+
Start	1	End	5450
Name	OJ991117_19.0421.C15.o1.gs	Method	GENSCAN
Start	62	End	5434
GI	none	Score	.49
Exons	62..208, 227..466, 1756..1909, 2833..3272, 4316..4472, 4635..4840, 5024..5434		

Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111199	Strand	+
Start	1	End	5450
Name	OJ991117_19.0421.C15.o3.np	Method	AAT/NAP
Start	4310	End	5450
GI	7489803	Score	1497

Exons	4310..5450		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi\|3645899\|gb\|AAC49502.1\| (U68408) 5' end not determined experimentally [Zea mays]		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111200	Strand	-
Start	1507	End	1889
Name	OJ991117_19.0421.C15.o1.gp	Method	AAT/GAP
Start	1507	End	1889
GI	uC-osflcyp033a04b1	Score	664
Exons	1507..1889		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111201	Strand	
Start	4221	End	4654
Name	OJ991117_19.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	4221	End	4627
GI	none	Score	96
Exons	4221..4295, 4222..4299, 4319..4627, 4324..4626		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111201	Strand	
Start	4221	End	4654
Name	OJ991117_19.0421.C15.o2.tw	Method	TBLASTX:Wheat
Start	4340	End	4654
GI	none	Score	230
Exons	4340..4654, 4345..4374, 4429..4554		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111202	Strand	
Start	4628	End	5448
Name	OJ991117_19.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	4628	End	4861
GI	none	Score	68
Exons	4628..4690, 4681..4860, 4685..4861		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111202	Strand	
Start	4628	End	5448
Name	OJ991117_19.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	4721	End	5293
GI	none	Score	273
Exons	4721..4969, 4728..5021, 4729..4953, 4980..5024, 5005..5292, 5009..5293		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15
Gene No.	111202	Strand	
Start	4628	End	5448
Name	OJ991117_19.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	4861	End	5380
GI	none	Score	653
Exons	4861..5340, 4862..5344, 4865..5380, 5169..5363		
Seq. No.	52679	Seq. ID	OJ991117_19.0421.C15

Gene No.	111202	Strand	
Start	4628	End	5448
Name	OJ991117_19.0421.C15.o1.ts	Method	TBLASTX:Soybean
Start	5138	End	5448
GI	none	Score	191
Exons	5138..5344, 5158..5328, 5162..5347, 5371..5448, 5373..5447		

Seq. No.	52680	Seq. ID	OJ991117_19.0421.C16
Gene No.	111203	Strand	+
Start	1695	End	2299
Name	OJ991117_19.0421.C16.o1.gs	Method	GENSCAN
Start	1695	End	2299
GI	none	Score	.98
Exons	1695..1780, 2133..2299		

Seq. No.	52681	Seq. ID	OJ991117_19.0421.C17
Gene No.	111204	Strand	+
Start	1	End	1074
Name	OJ991117_19.0421.C17.o1.np	Method	AAT/NAP
Start	1	End	1074
GI	6498436	Score	367
Exons	1..36, 322..478, 527..1074		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	52681	Seq. ID	OJ991117_19.0421.C17
Gene No.	111204	Strand	+
Start	1	End	1074
Name	OJ991117_19.0421.C17.o1.gs	Method	GENSCAN
Start	358	End	979
GI	none	Score	.46
Exons	358..448, 527..611, 646..758, 785..979		

Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o1.np	Method	AAT/NAP
Start	1	End	2974
GI	6498441	Score	217
Exons	1..343, 497..689, 2362..2675, 2876..2974		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	59	End	493
GI	none	Score	40
Exons	59..349, 144..224, 276..350, 428..493		

Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	122	End	539
GI	none	Score	70

Exons	122..364, 126..224, 279..353, 401..538, 414..539, 428..538		
Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o2.np	Method	AAT/NAP
Start	373	End	2974
GI	7248394	Score	525
Exons	373..670, 2847..2974		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		
Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o1.gs	Method	GENSCAN
Start	880	End	2031
GI	none	Score	.57
Exons	880..1056, 1959..2031		
Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o2.ts	Method	TBLASTX:Soybean
Start	1768	End	2305
GI	none	Score	82
Exons	1768..1878, 1999..2304, 2093..2305		
Seq. No.	52682	Seq. ID	OJ991117_19.0421.C18
Gene No.	111205	Strand	-
Start	1	End	2974
Name	OJ991117_19.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	2005	End	2281
GI	none	Score	105
Exons	2005..2280, 2108..2281		
Seq. No.	52683	Seq. ID	OJ991117_19.0421.C19
Gene No.	111206	Strand	+
Start	1	End	2343
Name	OJ991117_19.0421.C19.o1.np	Method	AAT/NAP
Start	1	End	2343
GI	7228457	Score	249
Exons	1..47, 159..964, 2299..2343		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	52683	Seq. ID	OJ991117_19.0421.C19
Gene No.	111206	Strand	+
Start	1	End	2343
Name	OJ991117_19.0421.C19.o1.gs	Method	GENSCAN
Start	563	End	1703
GI	none	Score	.53
Exons	563..622, 659..709, 1233..1352, 1632..1703		

Seq. No.	52683	Seq. ID	OJ991117_19.0421.C19
Gene No.	111207	Strand	-
Start	2440	End	2923
Name	OJ991117_19.0421.C19.o2.gs	Method	GENSCAN
Start	2440	End	2923
GI	none	Score	.48
Exons	2440..2449, 2801..2873, 2875..2923		

Seq. No.	52684	Seq. ID	OJ991117_19.0421.C20
Gene No.	111208	Strand	-
Start	1	End	1171
Name	OJ991117_19.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	1171
GI	4680199	Score	155
Exons	1..93, 931..1171		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52685	Seq. ID	OJ991117_19.0421.C21
Gene No.	111209	Strand	+
Start	45	End	565
Name	OJ991117_19.0421.C21.o1.gs	Method	GENSCAN
Start	45	End	565
GI	none	Score	.98
Exons	45..565		

Seq. No.	52686	Seq. ID	OJ991117_19.0421.C22
Gene No.	111210	Strand	+
Start	1	End	718
Name	OJ991117_19.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	718
GI	7489805	Score	304
Exons	1..718		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi\|4206306\|gb\|AAD11615.1\| (AF049110) prpol [Zea mays]		

Seq. No.	52686	Seq. ID	OJ991117_19.0421.C22
Gene No.	111210	Strand	+
Start	1	End	718
Name	OJ991117_19.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	381	End	692
GI	none	Score	191
Exons	381..692, 398..592		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111211	Strand	+
Start	4276	End	6247
Name	OJ991217_02.0419.C1.o1.gs	Method	GENSCAN
Start	4276	End	6247
GI	none	Score	.46
Exons	4276..4291, 4450..4551, 6147..6247		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111212	Strand	+
Start	6877	End	8288
Name	OJ991217_02.0419.C1.o2.gp	Method	AAT/GAP
Start	6866	End	8288

GI	10594_1.R1084	Score	2054
Exons	6866..7532, 7853..8288		
GI Descrip.	'3341443/emb\|CAA11075\| 2.0e-31 (AJ223074) acid phosphatase [Glycine max]'		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111212	Strand	+
Start	6877	End	8288
Name	OJ991217_02.0419.C1.o2.gs	Method	GENSCAN
Start	6877	End	8108
GI	none	Score	1
Exons	6877..7532, 7853..8108		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111212	Strand	+
Start	6877	End	8288
Name	OJ991217_02.0419.C1.o1.np	Method	AAT/NAP
Start	6883	End	8033
GI	7442053	Score	474
Exons	6883..7532, 7853..8033		
GI Descrip.	acid phosphatase (EC 3.1.3.-) - soybean gi\|3341443\|emb\|CAA11075.1\| (AJ223074) acid phosphatase [Glycine max]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111213	Strand	+
Start	13333	End	16570
Name	OJ991217_02.0419.C1.o2.np	Method	AAT/NAP
Start	13333	End	16567
GI	6907089	Score	4134
Exons	13333..14594, 14689..16567		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111213	Strand	+
Start	13333	End	16570
Name	OJ991217_02.0419.C1.o4.gs	Method	GENSCAN
Start	13333	End	16570
GI	none	Score	.89
Exons	13333..14398, 14426..14594, 14689..16570		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111214	Strand	+
Start	23438	End	25506
Name	OJ991217_02.0419.C1.o5.np	Method	AAT/NAP
Start	23438	End	25506
GI	5922623	Score	284
Exons	23438..23522, 23894..24048, 24217..24292, 25411..25506		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111215	Strand	+
Start	29504	End	31095
Name	OJ991217_02.0419.C1.o7.np	Method	AAT/NAP
Start	29504	End	31095

GI	7487460	Score	313
Exons	29504..29640, 29705..29798, 29883..30002, 30979..31095		
GI Descrip.	hypothetical protein T27D20.12 - Arabidopsis thaliana gi\|3377842\|gb\|AAC28224.1\| (AF076274) T27D20.12 gene product [Arabidopsis thaliana] gi\|7267175\|emb\|CAB77887.1\| (AL161499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111216	Strand	-
Start	394	End	897
Name	OJ991217_02.0419.C1.o1.gp	Method	AAT/GAP
Start	394	End	897
GI	none	Score	984
Exons	394..897		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o5.gs	Method	GENSCAN
Start	17205	End	24505
GI	none	Score	.5
Exons	17205..20461, 20466..20934, 20998..23399, 24436..24505		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o3.np	Method	AAT/NAP
Start	17208	End	23361
GI	7228457	Score	9233
Exons	17208..18758, 18825..19976, 20099..20934, 20998..22933, 22995..23361		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o4.np	Method	AAT/NAP
Start	23590	End	30223
GI	5042454	Score	268
Exons	23590..23643, 23873..24047, 30147..30223		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o3.gp	Method	AAT/GAP
Start	26061	End	28022
GI	225_3.R1084	Score	1268
Exons	26061..26345, 26564..26793, 27143..27231, 27925..28022		
GI Descrip.	'899610 3.0e-22 (U29383) acidic ribosomal protein P2 [Zea mays]'		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o6.gs	Method	GENSCAN

Start	26319	End	33692
GI	none	Score	.64
Exons	26319..26345, 26564..26793, 27143..27231, 28127..28206, 28240..28591, 30221..30265, 30835..30871, 31302..31350, 31616..31745, 33379..33419, 33618..33692		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111217	Strand	-
Start	17205	End	33692
Name	OJ991217_02.0419.C1.o6.np	Method	AAT/NAP
Start	26322	End	27230
GI	1173073	Score	418
Exons	26322..26345, 26564..26793, 27143..27230		
GI Descrip.	60S ACIDIC RIBOSOMAL PROTEIN P2A (P2) gi\|1076787\|pir\|\|S54179 acidic ribosomal protein 60S - maize gi\|2130117\|pir\|\|S65781 acidic ribosomal protein P2 - maize gi\|790508\|emb\|CAA60251\| (X86553) 60S acidic ribosomal protein [Zea mays]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	7048	End	8030
GI	none	Score	105
Exons	7048..7227, 7231..7455, 7236..7436, 7468..7533, 7923..8030, 7928..8029		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	7051	End	8030
GI	none	Score	140
Exons	7051..7173, 7056..7148, 7239..7454, 7240..7488, 7908..8030, 7928..8029		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o5.tm	Method	TBLASTX:Maize
Start	7107	End	7990
GI	none	Score	83
Exons	7107..7163, 7108..7173, 7242..7439, 7252..7455, 7455..7487, 7878..7940, 7920..7988, 7928..7990		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o8.tm	Method	TBLASTX:Maize
Start	11071	End	11242
GI	none	Score	47
Exons	11071..11103, 11111..11242, 11122..11211		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o6.tm	Method	TBLASTX:Maize

Start	17166	End	17348
GI	none	Score	139
Exons	17166..17348, 17167..17343		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o7.tw	Method	TBLASTX:Wheat
Start	17217	End	17819
GI	none	Score	83
Exons	17217..17342, 17221..17343, 17535..17819, 17536..17814		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o4.tw	Method	TBLASTX:Wheat
Start	17820	End	18201
GI	none	Score	166
Exons	17820..18200, 17851..18099, 18145..18201		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	18015	End	18338
GI	none	Score	187
Exons	18015..18338, 18028..18309		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o8.tw	Method	TBLASTX:Wheat
Start	18531	End	18843
GI	none	Score	57
Exons	18531..18791, 18642..18830, 18667..18843		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o3.ts	Method	TBLASTX:Soybean
Start	18591	End	19157
GI	5666795	Score	68
Exons	18591..18791, 18846..18983, 19059..19157		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o5.tw	Method	TBLASTX:Wheat
Start	18846	End	19304
GI	none	Score	95
Exons	18846..18986, 18847..18984, 19042..19215, 19056..19304, 19056..19280		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908

Name	OJ991217_02.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	19905	End	20276
GI	none	Score	90
Exons	19905..20276, 20116..20259		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	19930	End	20354
GI	none	Score	324
Exons	19930..20349, 19935..20354		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	20028	End	20412
GI	none	Score	217
Exons	20028..20411, 20047..20412		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	20439	End	20796
GI	none	Score	160
Exons	20439..20483, 20486..20761, 20491..20796		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	20485	End	20926
GI	none	Score	396
Exons	20485..20925, 20486..20926		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o4.ts	Method	TBLASTX:Soybean
Start	20521	End	20886
GI	none	Score	116
Exons	20521..20655, 20662..20886		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o3.tw	Method	TBLASTX:Wheat
Start	21091	End	21577
GI	none	Score	172
Exons	21091..21576, 21095..21382, 21404..21577		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o6.tw	Method	TBLASTX:Wheat

Start	22315	End	22707
GI	none	Score	92
Exons	22315..22572, 22349..22588, 22555..22653, 22556..22636, 22660..22707		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o7.tm	Method	TBLASTX:Maize
Start	22417	End	22702
GI	none	Score	106
Exons	22417..22665, 22418..22702		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	29486	End	29782
GI	none	Score	229
Exons	29486..29638, 29486..29635, 29487..29636, 29726..29782, 29727..29780		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o4.gp	Method	AAT/GAP
Start	34744	End	35197
GI	LIB3431-045-P1-N1-A10	Score	856
Exons	34744..35197		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o8.np	Method	AAT/NAP
Start	34998	End	35908
GI	7228442	Score	264
Exons	34998..35192, 35567..35908		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o7.gs	Method	GENSCAN
Start	35022	End	35535
GI	none	Score	.61
Exons	35022..35182, 35333..35535		

Seq. No.	52687	Seq. ID	OJ991217_02.0419.C1
Gene No.	111218	Strand	-
Start	35022	End	35908
Name	OJ991217_02.0419.C1.o9.np	Method	AAT/NAP
Start	35301	End	35908
GI	5441880	Score	388

Exons	35301..35908		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	52688	Seq. ID	OJ991117_06.0419.C1
Gene No.	111219	Strand	+
Start	8099	End	8274
Name	OJ991117_06.0419.C1.o1.gp	Method	AAT/GAP
Start	8099	End	8274
GI	none	Score	329
Exons	8099..8274		
Seq. No.	52688	Seq. ID	OJ991117_06.0419.C1
Gene No.	111220	Strand	+
Start	9358	End	9451
Name	OJ991117_06.0419.C1.o2.gp	Method	AAT/GAP
Start	9358	End	9451
GI	none	Score	188
Exons	9358..9451		
Seq. No.	52688	Seq. ID	OJ991117_06.0419.C1
Gene No.	111221	Strand	-
Start	614	End	9139
Name	OJ991117_06.0419.C1.o1.gs	Method	GENSCAN
Start	614	End	9139
GI	none	Score	.61
Exons	614..1209, 2016..2057, 2271..2504, 3245..3296, 3991..4053, 4591..4883, 5632..6008, 6791..6938, 8234..8539, 9127..9139		
Seq. No.	52688	Seq. ID	OJ991117_06.0419.C1
Gene No.	111221	Strand	-
Start	614	End	9139
Name	OJ991117_06.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	4612	End	5902
GI	none	Score	95
Exons	4612..4770, 4613..4768, 4771..4836, 4772..4822, 4824..4907, 4829..4873, 4966..5073, 4986..5054, 5834..5902, 5835..5897		
Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	207	End	395
GI	none	Score	169
Exons	207..335, 257..334, 261..395, 348..383		
Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.gs	Method	GENSCAN
Start	228	End	5419
GI	none	Score	.86
Exons	228..740, 835..1050, 3280..3483, 3573..3642, 4168..4345, 5064..5142, 5180..5419		
Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2

Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.gp	Method	AAT/GAP
Start	237	End	411
GI	none	Score	321
Exons	237..411		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	240	End	532
GI	none	Score	166
Exons	240..347, 257..346, 338..397, 339..383, 509..532		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.np	Method	AAT/NAP
Start	832	End	1385
GI	2642215	Score	113
Exons	832..1024, 1339..1385		
GI Descrip.	(AF030386) NOI protein [Arabidopsis thaliana]		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o2.gp	Method	AAT/GAP
Start	1347	End	1519
GI	none	Score	205
Exons	1347..1519		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o3.gp	Method	AAT/GAP
Start	1463	End	1653
GI	none	Score	297
Exons	1463..1653		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	4186	End	4392
GI	none	Score	245
Exons	4186..4392, 4212..4391		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	4206	End	4395
GI	none	Score	189
Exons	4206..4244, 4213..4395, 4272..4391		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2

Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	4213	End	4395
GI	none	Score	190
Exons	4213..4395, 4213..4350, 4335..4394		

Seq. No.	52689	Seq. ID	OJ991117_06.0419.C2
Gene No.	111222	Strand	+
Start	228	End	5419
Name	OJ991117_06.0419.C2.o2.np	Method	AAT/NAP
Start	4219	End	4401
GI	6642645	Score	159
Exons	4219..4401		
GI Descrip.	(AC012395) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111223	Strand	+
Start	4824	End	5051
Name	OJ991117_06.0419.C3.o1.gs	Method	GENSCAN
Start	4824	End	5051
GI	none	Score	.98
Exons	4824..5051		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111224	Strand	+
Start	8503	End	8588
Name	OJ991117_06.0419.C3.o2.np	Method	AAT/NAP
Start	8503	End	8588
GI	7228454	Score	46
Exons	8503..8588		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111225	Strand	+
Start	11015	End	11375
Name	OJ991117_06.0419.C3.o4.gs	Method	GENSCAN
Start	11015	End	11375
GI	none	Score	.93
Exons	11015..11375		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o1.gp	Method	AAT/GAP
Start	218	End	4308
GI	1588_1.R1084	Score	1034
Exons	218..464, 1152..1236, 1321..1418, 1493..1603, 4269..4308		
GI Descrip.	'3292814/emb\|CAA19804.1\| 7.0e-42 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1158	End	1604

GI	none	Score	44
Exons	1158..1238, 1168..1239, 1306..1419, 1314..1421, 1314..1394, 1315..1419, 1470..1601, 1485..1604, 1493..1603		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1159	End	7580
GI	none	Score	79
Exons	1159..1224, 1170..1238, 1170..1238, 1171..1239, 1305..1394, 1309..1419, 1315..1419, 1493..1612, 1494..1604, 4270..4320, 4494..4586, 4506..4586, 4508..4588, 4511..4588, 5946..6026, 5946..6026, 5947..6027, 6405..6500, 6407..6499, 6442..6501, 7268..7378, 7274..7375, 7492..7572, 7494..7580		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	1167	End	7589
GI	none	Score	51
Exons	1167..1238, 1170..1220, 1183..1239, 1306..1419, 1314..1421, 1314..1394, 1485..1616, 1493..1612, 4269..4337, 4508..4603, 4509..4586, 5946..6020, 5947..6027, 6401..6508, 6402..6500, 7250..7378, 7255..7341, 7271..7426, 7494..7583, 7498..7572, 7554..7589		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o1.np	Method	AAT/NAP
Start	1170	End	9645
GI	7486582	Score	788
Exons	1170..1236, 1321..1418, 1493..1603, 4269..4320, 4509..4585, 5967..6064, 6392..6505, 7273..7369, 7497..7588, 9433..9645		
GI Descrip.	hypothetical protein F7H19.70 - Arabidopsis thaliana gi\|3292814\|emb\|CAA19804.1\| (AL031018) putative protein [Arabidopsis thaliana] gi\|7269136\|emb\|CAB79244.1\| (AL161558) putative protein [Arabidopsis thaliana]		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	4508	End	7583
GI	none	Score	70
Exons	4508..4588, 4524..4586, 4529..4588, 5946..6026, 5946..6020, 5947..6048, 6402..6500, 6416..6502, 6426..6509, 7249..7341, 7250..7375, 7250..7378, 7280..7363, 7494..7583, 7495..7572		

Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o2.gp	Method	AAT/GAP
Start	7322	End	7966
GI	24884_1.R1084	Score	959

Exons	7322..7369, 7497..7966		
GI Descrip.	'3292814/emb\|CAA19804.1\| 7.0e-17 (AL031018) putative protein [Arabidopsis thaliana]'		
Seq. No.	52690	Seq. ID	OJ991117_06.0419.C3
Gene No.	111226	Strand	-
Start	218	End	9645
Name	OJ991117_06.0419.C3.o2.gs	Method	GENSCAN
Start	7332	End	7823
GI	none	Score	.77
Exons	7332..7823		
Seq. No.	52691	Seq. ID	OJ991117_06.0419.C4
Gene No.	111227	Strand	+
Start	6337	End	7191
Name	OJ991117_06.0419.C4.o1.np	Method	AAT/NAP
Start	6337	End	7191
GI	5281036	Score	313
Exons	6337..6498, 6889..7191		
GI Descrip.	(AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]		
Seq. No.	52691	Seq. ID	OJ991117_06.0419.C4
Gene No.	111228	Strand	-
Start	6550	End	7191
Name	OJ991117_06.0419.C4.o2.gs	Method	GENSCAN
Start	6550	End	7110
GI	none	Score	.5
Exons	6550..7110		
Seq. No.	52691	Seq. ID	OJ991117_06.0419.C4
Gene No.	111228	Strand	-
Start	6550	End	7191
Name	OJ991117_06.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	6702	End	7191
GI	none	Score	324
Exons	6702..6833, 6942..7124, 6943..7191		
Seq. No.	52691	Seq. ID	OJ991117_06.0419.C4
Gene No.	111228	Strand	-
Start	6550	End	7191
Name	OJ991117_06.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	6942	End	7191
GI	none	Score	318
Exons	6942..7148, 6943..7191		
Seq. No.	52691	Seq. ID	OJ991117_06.0419.C4
Gene No.	111228	Strand	-
Start	6550	End	7191
Name	OJ991117_06.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	7003	End	7191
GI	none	Score	273
Exons	7003..7191, 7005..7151, 7009..7191		
Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111229	Strand	+
Start	1	End	579

Name	OJ991117_06.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	419
GI	41448_1.R1084	Score	722
Exons	1..419		
GI Descrip.	'5281036/emb\|CAB45972.1\| 1.0e-39 (AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]'		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111229	Strand	+
Start	1	End	579
Name	OJ991117_06.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	540
GI	5281036	Score	605
Exons	1..540		
GI Descrip.	(AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111229	Strand	+
Start	1	End	579
Name	OJ991117_06.0419.C5.o1.gs	Method	GENSCAN
Start	85	End	579
GI	none	Score	1
Exons	85..579		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111230	Strand	+
Start	8382	End	8459
Name	OJ991117_06.0419.C5.o4.np	Method	AAT/NAP
Start	8382	End	8459
GI	6642637	Score	102
Exons	8382..8459		
GI Descrip.	(AC012395) unknown protein [Arabidopsis thaliana]		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111231	Strand	-
Start	1	End	1525
Name	OJ991117_06.0419.C5.o2.np	Method	AAT/NAP
Start	1	End	1525
GI	6983864	Score	87
Exons	1..27, 1397..1525		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	513
GI	none	Score	336
Exons	1..261, 12..245, 231..308, 232..309, 309..476, 310..513		

Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	4	End	606
GI	none	Score	355

Exons	4..261, 9..245, 234..479, 252..365, 253..513, 559..606		
Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	4	End	531
GI	none	Score	344
Exons	4..261, 18..242, 252..476, 253..531		
Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o2.gs	Method	GENSCAN
Start	4511	End	8270
GI	none	Score	.49
Exons	4511..5013, 6558..6663, 7431..7563, 7838..7988, 8235..8270		
Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o3.np	Method	AAT/NAP
Start	4597	End	7562
GI	7434420	Score	247
Exons	4597..5120, 7507..7562		
GI Descrip.	receptor-like protein kinase (EC 2.7.1.-) - rice gi\|1707642\|emb\|CAA69028.1\| (Y07748) TMK [Oryza sativa]		
Seq. No.	52692	Seq. ID	OJ991117_06.0419.C5
Gene No.	111232	Strand	-
Start	4511	End	8270
Name	OJ991117_06.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	4634	End	4898
GI	none	Score	222
Exons	4634..4846, 4635..4898		
Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111233	Strand	+
Start	222	End	1987
Name	OJ991117_06.0419.C6.o1.gs	Method	GENSCAN
Start	222	End	1987
GI	none	Score	.72
Exons	222..1365, 1515..1987		
Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111234	Strand	+
Start	2826	End	4683
Name	OJ991117_06.0419.C6.o2.gs	Method	GENSCAN
Start	2826	End	4683
GI	none	Score	.73
Exons	2826..2901, 2984..4306, 4634..4683		
Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111234	Strand	+
Start	2826	End	4683
Name	OJ991117_06.0419.C6.o2.np	Method	AAT/NAP
Start	2937	End	4334

GI	6041834	Score	1062
Exons	2937..4334		
GI Descrip.	(AC009853) putative glucan endo-1-3-beta-glucosidase [Arabidopsis thaliana]		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2985	End	3750
GI	none	Score	219
Exons	2985..3170, 2986..3171, 3217..3426, 3237..3425, 3438..3605, 3439..3606, 3589..3747, 3615..3671, 3615..3749, 3616..3750		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	2998	End	3981
GI	none	Score	159
Exons	2998..3174, 3217..3303, 3252..3302, 3391..3603, 3411..3599, 3624..3779, 3625..3981, 3840..3971		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	3004	End	4305
GI	none	Score	118
Exons	3004..3171, 3217..3300, 3313..3615, 3393..3605, 3621..3779, 3622..3840, 3840..3986, 3841..3990, 4132..4305		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	3784	End	3984
GI	none	Score	192
Exons	3784..3984, 3840..3983		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	3802	End	3993
GI	none	Score	300
Exons	3802..3993, 3821..3937, 3834..3992		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	4131	End	4311
GI	none	Score	205
Exons	4131..4307, 4132..4308, 4234..4311		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6

Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	4131	End	4311
GI	none	Score	212
Exons	4131..4307, 4132..4308, 4234..4311		

Seq. No.	52693	Seq. ID	OJ991117_06.0419.C6
Gene No.	111235	Strand	-
Start	5655	End	6917
Name	OJ991117_06.0419.C6.o3.gs	Method	GENSCAN
Start	5655	End	6917
GI	none	Score	.5
Exons	5655..5730, 6766..6917		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111236	Strand	+
Start	1	End	4304
Name	OJ991117_06.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	3012
GI	7485115	Score	73
Exons	1..98, 2964..3012		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi\|2244776\|emb\|CAB10199.1\| (Z97335) hypothetical protein [Arabidopsis thaliana] gi\|7268125\|emb\|CAB78462.1\| (AL161538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111236	Strand	+
Start	1	End	4304
Name	OJ991117_06.0419.C7.o1.gs	Method	GENSCAN
Start	12	End	4304
GI	none	Score	.98
Exons	12..222, 251..397, 1090..2019, 2443..4304		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111237	Strand	-
Start	4801	End	9020
Name	OJ991117_06.0419.C7.o2.gs	Method	GENSCAN
Start	4801	End	8924
GI	none	Score	.85
Exons	4801..4857, 4955..5072, 5318..5520, 5632..5754, 5848..6023, 6137..6226, 6343..6537, 6626..6706, 6940..7200, 7851..7937, 8720..8924		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111237	Strand	-
Start	4801	End	9020
Name	OJ991117_06.0419.C7.o2.np	Method	AAT/NAP
Start	4949	End	8924
GI	3023751	Score	2193
Exons	4949..5072, 5165..5292, 5374..5520, 5632..5754, 5848..6023, 6137..6226, 6343..6537, 6626..6706, 6793..6867, 6940..7200, 7851..7937, 8720..8924		
GI Descrip.	70 KD PEPTIDYLPROLYL ISOMERASE (PEPTIDYLPROLYL CIS-TRANS ISOMERASE) (CYCLOPHILIN) (PPIASE) gi\|1076772\|pir\|\|S55383 peptidylprolyl isomerase (EC 5.2.1.8) - wheat		

gi|854626|emb|CAA60505| (X86903) peptidylprolyl isomerase [Triticum aestivum]

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111237	Strand	-
Start	4801	End	9020
Name	OJ991117_06.0419.C7.o1.gp	Method	AAT/GAP
Start	5486	End	9020
GI	253_3.R1084	Score	2568
Exons	5486..5520, 5632..5754, 5848..6023, 6137..6226, 6343..6537, 6626..6706, 6793..6867, 6940..7200, 7851..7937, 8720..9020		
GI Descrip.	'3540199 6.0e-30 (AC004260) Putative monosaccharide transport protein [Arabidopsis thaliana]'		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111238	Strand	-
Start	12141	End	13526
Name	OJ991117_06.0419.C7.o3.gs	Method	GENSCAN
Start	12141	End	13526
GI	none	Score	1
Exons	12141..13526		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	3579	End	4310
GI	none	Score	67
Exons	3579..3680, 4020..4064, 4028..4114, 4073..4162, 4104..4163, 4150..4182, 4202..4306, 4203..4310		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	4940	End	8825
GI	none	Score	69
Exons	4940..5074, 5148..5273, 5158..5304, 5159..5296, 5371..5523, 5373..5522, 5632..5757, 5633..5755, 5848..6048, 5867..6055, 5920..6048, 5933..6055, 6162..6227, 6178..6228, 6344..6535, 6348..6536, 6359..6508, 6388..6540, 6618..6707, 6625..6708, 6627..6707, 6636..6677, 6785..6871, 6788..6850, 6792..6884, 6937..7203, 6944..7228, 6944..7009, 6956..7105, 6999..7202, 7094..7171, 7097..7198, 7843..7944, 7850..7945, 8721..8795, 8799..8825		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	4973	End	8927
GI	none	Score	131
Exons	4973..5074, 4978..5073, 5158..5304, 5166..5294, 5370..5522, 5371..5523, 5373..5522, 5591..5755, 5630..5746, 5632..5757, 5632..5772, 5845..5901, 5846..6055, 5846..6025, 5848..6048, 5920..6048, 6138..6167, 6138..6170, 6168..6227, 6168..6227, 6173..6229, 6175..6228, 6344..6535, 6348..6536, 6348..6512,		

6359..6511, 6385..6540, 6618..6701, 6623..6694, 6625..6708,
6625..6702, 6627..6680, 6627..6707, 6627..6683, 6788..6868,
6791..6871, 6792..6872, 6941..7201, 6944..7201, 6944..7009,
6956..7105, 6999..7202, 7094..7171, 7097..7198, 7110..7196,
7843..7944, 7850..7945, 8721..8831, 8722..8751, 8724..8789,
8883..8927, 8898..8927

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	4973	End	8822
GI	none	Score	122

Exons 4973..5074, 5158..5304, 5159..5293, 5371..5523, 5388..5465,
5630..5746, 5632..5757, 5633..5755, 5834..6055, 5845..5901,
5848..6024, 5920..6048, 5933..6055, 6138..6173, 6162..6227,
6178..6231, 6344..6535, 6345..6536, 6348..6506, 6359..6508,
6412..6540, 6618..6695, 6625..6699, 6627..6707, 6627..6683,
6785..6871, 6792..6869, 6935..7198, 6943..7197, 6944..7222,
6944..7012, 6956..7087, 6956..7108, 6999..7202, 7094..7171,
7095..7169, 7097..7198, 7843..7944, 8721..8822, 8724..8789

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	5845	End	8780
GI	none	Score	88

Exons 5845..5904, 5920..5976, 6348..6512, 6359..6505, 6623..6700,
6625..6708, 6627..6707, 6785..6868, 6787..6864, 6792..6869,
6941..7156, 6999..7154, 8724..8780

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	12174	End	13109
GI	none	Score	186

Exons 12174..12773, 12213..12974, 12321..12716, 12489..12656,
12534..13076, 12639..13109, 12891..13076

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	12195	End	13076
GI	none	Score	135

Exons 12195..12689, 12198..12605, 12498..13028, 12648..13076

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	12195	End	13139
GI	none	Score	189

Exons 12195..12668, 12324..13028, 12519..13100, 12630..13139

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o4.gs	Method	GENSCAN
Start	14025	End	16569
GI	none	Score	.65
Exons	14025..14359, 14454..14571, 14640..15068, 16181..16569		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	14173	End	15017
GI	none	Score	717
Exons	14173..14952, 14178..14996, 14802..15017		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	14292	End	14996
GI	none	Score	548
Exons	14292..14954, 14293..14922, 14916..14996		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	14374	End	14627
GI	none	Score	209
Exons	14374..14625, 14421..14627		

Seq. No.	52694	Seq. ID	OJ991117_06.0419.C7
Gene No.	111239	Strand	-
Start	14025	End	16569
Name	OJ991117_06.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	14590	End	14996
GI	none	Score	325
Exons	14590..14952, 14592..14996		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111240	Strand	+
Start	229	End	532
Name	OJ991117_06.0419.C8.o1.np	Method	AAT/NAP
Start	229	End	529
GI	7486132	Score	189
Exons	229..529		
GI Descrip.	hypothetical protein F25G13.60 - Arabidopsis thaliana gi\|5123938\|emb\|CAB45496.1\| (AL079349) putative protein [Arabidopsis thaliana] gi\|7267999\|emb\|CAB78339.1\| (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111240	Strand	+
Start	229	End	532
Name	OJ991117_06.0419.C8.o1.gs	Method	GENSCAN
Start	302	End	532

GI	none	Score	.75
Exons	302..532		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111241	Strand	+
Start	4123	End	4266
Name	OJ991117_06.0419.C8.o3.np	Method	AAT/NAP
Start	4123	End	4266
GI	1370154	Score	191
Exons	4123..4266		
GI Descrip.	(Z73955) RAB11G [Lotus japonicus]		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	409	End	541
GI	none	Score	187
Exons	409..522, 410..541		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	409	End	580
GI	none	Score	204
Exons	409..522, 410..580		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o2.np	Method	AAT/NAP
Start	1170	End	4266
GI	7485929	Score	185
Exons	1170..1232, 2319..2825, 4231..4266		
GI Descrip.	hypothetical protein F21C20.150 - Arabidopsis thaliana gi\|5262220\|emb\|CAB45846.1\| (AL080254) putative protein [Arabidopsis thaliana] gi\|7268876\|emb\|CAB79080.1\| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o2.gs	Method	GENSCAN
Start	2196	End	3077
GI	none	Score	.84
Exons	2196..2543, 2594..2793, 2798..3077		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2319	End	2716
GI	none	Score	89
Exons	2319..2429, 2320..2412, 2432..2470, 2448..2564, 2448..2579, 2452..2580, 2559..2621, 2624..2716, 2633..2716		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	2325	End	2794
GI	none	Score	133
Exons	2325..2444, 2451..2543, 2588..2794		

Seq. No.	52695	Seq. ID	OJ991117_06.0419.C8
Gene No.	111242	Strand	-
Start	2196	End	4266
Name	OJ991117_06.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	4155	End	4266
GI	none	Score	180
Exons	4155..4265, 4156..4266		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111243	Strand	+
Start	438	End	4598
Name	OJ991117_06.0419.C9.o1.np	Method	AAT/NAP
Start	438	End	2067
GI	7438404	Score	354
Exons	438..481, 1025..1087, 1751..2067		
GI Descrip.	GTP-binding protein Rab11e - common tobacco (fragment) gi\|623584\|gb\|AAA74116.1\| (L29272) putative [Nicotiana tabacum]		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111243	Strand	+
Start	438	End	4598
Name	OJ991117_06.0419.C9.o1.gp	Method	AAT/GAP
Start	1751	End	2283
GI	18792_1.R1084	Score	994
Exons	1751..2283		
GI Descrip.	'1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111243	Strand	+
Start	438	End	4598
Name	OJ991117_06.0419.C9.o1.gs	Method	GENSCAN
Start	1777	End	4598
GI	none	Score	.82
Exons	1777..2001, 2593..2693, 3202..3490, 4353..4598		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111243	Strand	+
Start	438	End	4598
Name	OJ991117_06.0419.C9.o2.np	Method	AAT/NAP
Start	4365	End	4592
GI	289160	Score	102
Exons	4365..4592		
GI Descrip.	(L03795) jacalin [Artocarpus integrifolia]		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111244	Strand	-
Start	9193	End	9489
Name	OJ991117_06.0419.C9.o2.gs	Method	GENSCAN

Start	9193	End	9489
GI	none	Score	.87
Exons	9193..9489		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111245	Strand	-
Start	12419	End	12480
Name	OJ991117_06.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1742	End	2072
GI	none	Score	88
Exons	1742..1813, 1750..2064, 1753..2049, 1809..2072		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111245	Strand	-
Start	12419	End	12480
Name	OJ991117_06.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1753	End	2037
GI	none	Score	304
Exons	1753..2037, 1753..2007		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111245	Strand	-
Start	12419	End	12480
Name	OJ991117_06.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1753	End	2043
GI	none	Score	292
Exons	1753..2043, 1753..2007		

Seq. No.	52696	Seq. ID	OJ991117_06.0419.C9
Gene No.	111245	Strand	-
Start	12419	End	12480
Name	OJ991117_06.0419.C9.o2.gp	Method	AAT/GAP
Start	12419	End	12480
GI	2312838	Score	77
Exons	12419..12480		
GI Descrip.	1420932/gb\|U61383\|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-
Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.np	Method	AAT/NAP
Start	2666	End	4931
GI	6358773	Score	268
Exons	2666..2686, 4199..4270, 4370..4438, 4562..4627, 4734..4931		
GI Descrip.	(AC011665) putative DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-
Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.gp	Method	AAT/GAP
Start	3211	End	3985
GI	none	Score	1059
Exons	3211..3606, 3701..3794, 3892..3985		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-

Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	4075	End	4898
GI	none	Score	55
Exons	4075..4110, 4076..4111, 4196..4261, 4200..4271, 4341..4439, 4352..4441, 4370..4441, 4559..4627, 4560..4628, 4560..4628, 4728..4823, 4731..4802, 4732..4821, 4733..4843, 4829..4885, 4860..4898, 4861..4893		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-
Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	4166	End	4823
GI	none	Score	71
Exons	4166..4261, 4352..4441, 4356..4439, 4559..4627, 4560..4628, 4728..4823, 4732..4815		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-
Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	4196	End	4821
GI	none	Score	77
Exons	4196..4261, 4341..4439, 4346..4441, 4559..4627, 4560..4628, 4728..4805, 4732..4821		

Seq. No.	52697	Seq. ID	OJ991117_06.0419.C10
Gene No.	111246	Strand	-
Start	2666	End	4931
Name	OJ991117_06.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	4199	End	4805
GI	none	Score	66
Exons	4199..4261, 4200..4271, 4352..4441, 4356..4439, 4370..4441, 4559..4627, 4560..4628, 4728..4805, 4732..4785		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111247	Strand	+
Start	4248	End	9693
Name	OJ991117_06.0419.C11.o2.gs	Method	GENSCAN
Start	4248	End	9693
GI	none	Score	.52
Exons	4248..4670, 5197..5251, 5588..5640, 6253..6288, 6713..6906, 8180..8252, 9448..9693		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.gp	Method	AAT/GAP
Start	10414	End	10998
GI	927_2.R1084	Score	906
Exons	10414..10794, 10917..10998		
GI Descrip.	'5816996/emb\|CAB53651.1\| 3.0e-43 (AL110123) ribosomal protein L32-like protein [Arabidopsis thaliana]'		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-

Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	10659	End	10998
GI	none	Score	166
Exons	10659..10799, 10667..10798, 10915..10998, 10915..10998		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	10662	End	10996
GI	none	Score	107
Exons	10662..10799, 10705..10797, 10916..10996, 10917..10991		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	10665	End	10996
GI	none	Score	113
Exons	10665..10799, 10680..10799, 10916..10996, 10917..10991		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o3.gs	Method	GENSCAN
Start	10665	End	10927
GI	none	Score	.91
Exons	10665..10794, 10917..10927		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.np	Method	AAT/NAP
Start	10668	End	10998
GI	7441093	Score	297
Exons	10668..10794, 10917..10998		
GI Descrip.	ribosomal protein L32, cytosolic - Arabidopsis thaliana gi\|5816996\|emb\|CAB53651.1\| (AL110123) ribosomal protein L32-like protein [Arabidopsis thaliana] gi\|7268562\|emb\|CAB78812.1\| (AL161547) ribosomal protein L32-like protein [Arabidopsis thaliana]		

Seq. No.	52698	Seq. ID	OJ991117_06.0419.C11
Gene No.	111248	Strand	-
Start	10665	End	10998
Name	OJ991117_06.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	10695	End	10998
GI	none	Score	157
Exons	10695..10799, 10697..10798, 10915..10998, 10916..10996		

Seq. No.	52699	Seq. ID	OJ991117_06.0419.C12
Gene No.	111249	Strand	+
Start	10	End	1950
Name	OJ991117_06.0419.C12.o1.gs	Method	GENSCAN
Start	10	End	1950
GI	none	Score	.51

Exons	10..230, 1824..1950		
Seq. No.	52699	Seq. ID	OJ991117_06.0419.C12
Gene No.	111250	Strand	-
Start	83	End	137
Name	OJ991117_06.0419.C12.o1.gp	Method	AAT/GAP
Start	83	End	137
GI	927_1.R1084	Score	79
Exons	83..137		
GI Descrip.	'5816996/emb\|CAB53651.1\| 2.0e-55 (AL110123) ribosomal protein L32-like protein [Arabidopsis thaliana]'		
Seq. No.	52699	Seq. ID	OJ991117_06.0419.C12
Gene No.	111251	Strand	-
Start	2863	End	3948
Name	OJ991117_06.0419.C12.o1.np	Method	AAT/NAP
Start	2863	End	3948
GI	7489282	Score	108
Exons	2863..2909, 3712..3948		
GI Descrip.	tuberisation-related protein - potato gi\|2894118\|emb\|CAA05999.1\| (AJ003219) hypothetical protein [Solanum tuberosum]		
Seq. No.	52699	Seq. ID	OJ991117_06.0419.C12
Gene No.	111251	Strand	-
Start	2863	End	3948
Name	OJ991117_06.0419.C12.o2.gp	Method	AAT/GAP
Start	3411	End	3839
GI	5607582	Score	660
Exons	3411..3839		
Seq. No.	52700	Seq. ID	OJ991117_06.0419.C13
Gene No.	111252	Strand	+
Start	2255	End	3254
Name	OJ991117_06.0419.C13.o2.gs	Method	GENSCAN
Start	2255	End	3254
GI	none	Score	.8
Exons	2255..2299, 3087..3254		
Seq. No.	52700	Seq. ID	OJ991117_06.0419.C13
Gene No.	111253	Strand	-
Start	1	End	338
Name	OJ991117_06.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	273
GI	3695023	Score	191
Exons	1..273		
GI Descrip.	(AF055850) unknown [Arabidopsis thaliana]		
Seq. No.	52700	Seq. ID	OJ991117_06.0419.C13
Gene No.	111253	Strand	-
Start	1	End	338
Name	OJ991117_06.0419.C13.o1.gs	Method	GENSCAN
Start	29	End	258
GI	none	Score	.98
Exons	29..258		
Seq. No.	52700	Seq. ID	OJ991117_06.0419.C13
Gene No.	111253	Strand	-

Start	1	End	338
Name	OJ991117_06.0419.C13.o1.gp	Method	AAT/GAP
Start	93	End	338
GI	none	Score	449
Exons	93..338		

Seq. No.	52701	Seq. ID	OJ991117_06.0419.C14
Gene No.	111254	Strand	+
Start	1572	End	1971
Name	OJ991117_06.0419.C14.o1.gs	Method	GENSCAN
Start	1572	End	1971
GI	none	Score	.89
Exons	1572..1656, 1847..1971		

Seq. No.	52701	Seq. ID	OJ991117_06.0419.C14
Gene No.	111255	Strand	-
Start	4212	End	4529
Name	OJ991117_06.0419.C14.o2.gs	Method	GENSCAN
Start	4212	End	4529
GI	none	Score	.88
Exons	4212..4529		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.np	Method	AAT/NAP
Start	177	End	2292
GI	7486133	Score	851
Exons	177..800, 1659..1913, 2025..2292		
GI Descrip.	hypothetical protein F25G13.70 - Arabidopsis thaliana gi\|5123939\|emb\|CAB45497.1\| (AL079349) putative protein [Arabidopsis thaliana] gi\|7268000\|emb\|CAB78340.1\| (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.gs	Method	GENSCAN
Start	183	End	2324
GI	none	Score	.95
Exons	183..800, 1659..1913, 2025..2324		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	267	End	668
GI	none	Score	261
Exons	267..668, 401..517		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	282	End	737
GI	none	Score	74
Exons	282..347, 401..493, 404..487, 405..527, 591..737, 644..727		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	305	End	2300
GI	none	Score	52
Exons	305..493, 318..347, 401..493, 402..494, 479..550, 480..551, 555..638, 638..682, 639..692, 639..722, 709..801, 709..750, 1641..1925, 1650..1889, 1664..1912, 2019..2300, 2020..2139, 2024..2299, 2115..2300		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o3.tc	Method	TBLASTX:Cress
Start	1648	End	1781
GI	none	Score	81
Exons	1648..1710, 1649..1774, 1650..1775, 1655..1768, 1656..1781		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1662	End	2303
GI	none	Score	311
Exons	1662..1925, 1664..1855, 2019..2264, 2024..2251, 2118..2258, 2247..2303		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.gp	Method	AAT/GAP
Start	1752	End	2558
GI	5447_1.R1084	Score	1352
Exons	1752..1913, 2025..2558		
GI Descrip.	'5123939/emb\|CAB45497.1\| 8.0e-47 (AL079349) putative protein [Arabidopsis thaliana]'		

Seq. No.	52702	Seq. ID	OJ991117_06.0419.C15
Gene No.	111256	Strand	+
Start	177	End	2558
Name	OJ991117_06.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	1782	End	2282
GI	none	Score	132
Exons	1782..1916, 2019..2282, 2030..2251, 2130..2273		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o1.gs	Method	GENSCAN
Start	22	End	6612
GI	none	Score	.86
Exons	22..82, 653..754, 1275..1643, 2679..3039, 3167..3290, 3438..3705, 3786..3823, 3921..4074, 4382..4466, 4595..4719, 5466..6270, 6360..6612		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o1.np	Method	AAT/NAP
Start	1290	End	6703
GI	4688596	Score	2372
Exons	1290..1643, 2679..3039, 3167..3290, 3438..3684, 3853..4074, 4382..4466, 4595..4719, 5466..6270, 6360..6703		
GI Descrip.	(AJ005682) inositol 1,4,5-trisphosphate 5-phosphatase [Arabidopsis thaliana]		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1399	End	2835
GI	none	Score	193
Exons	1399..1644, 1427..1645, 1428..1646, 1428..1649, 2676..2834, 2677..2835		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	1431	End	3274
GI	none	Score	148
Exons	1431..1649, 1441..1644, 2676..2741, 2677..2739, 2763..3038, 2763..3050, 2803..3039, 3157..3273, 3161..3274		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o5.ts	Method	TBLASTX:Soybean
Start	1431	End	1644
GI	none	Score	139
Exons	1431..1643, 1477..1644		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	2832	End	3292
GI	none	Score	99
Exons	2832..3041, 2938..3039, 3157..3291, 3161..3292		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	3439	End	3981
GI	none	Score	180
Exons	3439..3657, 3439..3699, 3913..3981		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o3.ts	Method	TBLASTX:Soybean

Start	4369	End	4720
GI	none	Score	99
Exons	4369..4455, 4382..4483, 4383..4442, 4594..4719, 4595..4720		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	5586	End	6011
GI	none	Score	74
Exons	5586..5702, 5587..5703, 5679..6011, 5680..5997, 5682..6002, 5702..6004		

Seq. No.	52703	Seq. ID	OJ991117_06.0419.C16
Gene No.	111257	Strand	-
Start	22	End	6703
Name	OJ991117_06.0419.C16.o4.ts	Method	TBLASTX:Soybean
Start	6237	End	6614
GI	none	Score	108
Exons	6237..6281, 6353..6613, 6477..6614		

Seq. No.	52704	Seq. ID	OJ991117_06.0419.C18
Gene No.	111258	Strand	
Start	769	End	1061
Name	OJ991117_06.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	769	End	1061
GI	none	Score	62
Exons	769..861, 873..1061		

Seq. No.	52705	Seq. ID	OJ991117_07.0421.C3
Gene No.	111259	Strand	+
Start	1	End	911
Name	OJ991117_07.0421.C3.o1.np	Method	AAT/NAP
Start	1	End	519
GI	7523507	Score	718
Exons	1..519		
GI Descrip.	(AP001633) Similar to Oryza sativa serine carboxypeptidase-like protein (P52712)		

Seq. No.	52705	Seq. ID	OJ991117_07.0421.C3
Gene No.	111259	Strand	+
Start	1	End	911
Name	OJ991117_07.0421.C3.o1.gs	Method	GENSCAN
Start	119	End	911
GI	none	Score	.4
Exons	119..193, 253..456, 766..911		

Seq. No.	52705	Seq. ID	OJ991117_07.0421.C3
Gene No.	111260	Strand	-
Start	413	End	845
Name	OJ991117_07.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	154	End	534
GI	none	Score	74
Exons	154..228, 155..229, 193..285, 204..281, 218..286, 289..354, 295..339, 297..353, 345..503, 346..504, 346..534		

Seq. No.	52705	Seq. ID	OJ991117_07.0421.C3

Gene No.	111260	Strand	-
Start	413	End	845
Name	OJ991117_07.0421.C3.o1.gp	Method	AAT/GAP
Start	413	End	845
GI	36924_1.R1084	Score	623
Exons	413..845		
GI Descrip.	'2149018/gb\|U70541\|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	3250
GI	7262695	Score	397
Exons	1..18, 1570..1774, 1909..1990, 3091..3250		
GI Descrip.	(AC012188) Strong similarity to an unknown protein from Arabidopsis thaliana gb\|AL049171.1		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.gs	Method	GENSCAN
Start	805	End	3379
GI	none	Score	.78
Exons	805..851, 1441..1774, 1909..1990, 3091..3205, 3349..3379		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	1560	End	3176
GI	none	Score	119
Exons	1560..1775, 1571..1774, 1904..1999, 1906..1992, 3090..3176		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	1569	End	3206
GI	none	Score	88
Exons	1569..1619, 1570..1626, 1571..1774, 1572..1775, 1903..1992, 1907..1999, 3090..3170, 3090..3170, 3171..3206		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.gp	Method	AAT/GAP
Start	1570	End	1660
GI	22006_1.R1084	Score	165
Exons	1570..1660		
GI Descrip.	'2935529 4.0e-93 (AF049069) No definition line found [Pinus radiata]'		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-

Start	1	End	3411
Name	OJ991117_07.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	1571	End	1996
GI	none	Score	86
Exons	1571..1771, 1575..1766, 1909..1992, 1913..1996		

Seq. No.	52706	Seq. ID	OJ991117_07.0421.C4
Gene No.	111261	Strand	-
Start	1	End	3411
Name	OJ991117_07.0421.C4.o2.gp	Method	AAT/GAP
Start	1711	End	3411
GI	16779_1.R1084	Score	584
Exons	1711..1774, 1909..1990, 3091..3205, 3349..3411		
GI Descrip.	'4539422/emb\|CAB38955.1\| 1.0e-22 (AL049171) putative protein [Arabidopsis thaliana]'		

Seq. No.	52707	Seq. ID	OJ991117_07.0421.C6
Gene No.	111262	Strand	-
Start	1	End	744
Name	OJ991117_07.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	744
GI	6983860	Score	760
Exons	1..160, 416..744		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	52707	Seq. ID	OJ991117_07.0421.C6
Gene No.	111262	Strand	-
Start	1	End	744
Name	OJ991117_07.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	63	End	416
GI	none	Score	255
Exons	63..416		

Seq. No.	52707	Seq. ID	OJ991117_07.0421.C6
Gene No.	111262	Strand	-
Start	1	End	744
Name	OJ991117_07.0421.C6.o1.gs	Method	GENSCAN
Start	422	End	733
GI	none	Score	.89
Exons	422..733		

Seq. No.	52708	Seq. ID	OJ991117_07.0421.C7
Gene No.	111263	Strand	-
Start	959	End	1132
Name	OJ991117_07.0421.C7.o1.np	Method	AAT/NAP
Start	959	End	1132
GI	6063554	Score	105
Exons	959..1132		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52709	Seq. ID	OJ991117_07.0421.C9
Gene No.	111264	Strand	-
Start	1	End	730
Name	OJ991117_07.0421.C9.o1.np	Method	AAT/NAP

Start	1	End	730
GI	4191789	Score	77
Exons	1..131, 250..280, 399..504, 708..730		
GI Descrip.	(AC005917) putative potassium/proton antiporter [Arabidopsis thaliana]		

Seq. No.	52709	Seq. ID	OJ991117_07.0421.C9
Gene No.	111264	Strand	-
Start	1	End	730
Name	OJ991117_07.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	63	End	460
GI	none	Score	69
Exons	63..149, 68..133, 70..135, 244..312, 248..325, 248..322, 250..324, 437..460		

Seq. No.	52709	Seq. ID	OJ991117_07.0421.C9
Gene No.	111264	Strand	-
Start	1	End	730
Name	OJ991117_07.0421.C9.o1.gs	Method	GENSCAN
Start	250	End	496
GI	none	Score	.81
Exons	250..322, 438..496		

Seq. No.	52710	Seq. ID	OJ991117_07.0421.C12
Gene No.	111265	Strand	+
Start	69	End	697
Name	OJ991117_07.0421.C12.o1.gs	Method	GENSCAN
Start	69	End	697
GI	none	Score	.44
Exons	69..202, 268..492, 565..697		

Seq. No.	52711	Seq. ID	OJ991117_07.0421.C13
Gene No.	111266	Strand	+
Start	1	End	1172
Name	OJ991117_07.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	1172
GI	6069646	Score	296
Exons	1..31, 283..565, 849..1172		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52711	Seq. ID	OJ991117_07.0421.C13
Gene No.	111266	Strand	+
Start	1	End	1172
Name	OJ991117_07.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	327	End	779
GI	none	Score	319
Exons	327..779, 527..655		

Seq. No.	52711	Seq. ID	OJ991117_07.0421.C13
Gene No.	111266	Strand	+
Start	1	End	1172
Name	OJ991117_07.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	422	End	845

GI	none	Score	238
Exons	422..721, 426..725, 738..845		

Seq. No.	52711	Seq. ID	OJ991117_07.0421.C13
Gene No.	111266	Strand	+
Start	1	End	1172
Name	OJ991117_07.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	838	End	1119
GI	none	Score	180
Exons	838..1017, 840..1016, 1030..1119		

Seq. No.	52712	Seq. ID	OJ991117_07.0421.C14
Gene No.	111267	Strand	-
Start	1	End	801
Name	OJ991117_07.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	801
GI	7106512	Score	898
Exons	1..307, 362..801		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52712	Seq. ID	OJ991117_07.0421.C14
Gene No.	111267	Strand	-
Start	1	End	801
Name	OJ991117_07.0421.C14.o1.gs	Method	GENSCAN
Start	50	End	793
GI	none	Score	.69
Exons	50..337, 354..520, 643..793		

Seq. No.	52713	Seq. ID	OJ991117_07.0421.C17
Gene No.	111268	Strand	-
Start	1	End	251
Name	OJ991117_07.0421.C17.o1.np	Method	AAT/NAP
Start	1	End	251
GI	7106512	Score	84
Exons	1..117, 191..251		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52714	Seq. ID	OJ991117_07.0421.C24
Gene No.	111269	Strand	-
Start	1	End	807
Name	OJ991117_07.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	807
GI	6742729	Score	1236
Exons	1..807		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	52714	Seq. ID	OJ991117_07.0421.C24
Gene No.	111269	Strand	-
Start	1	End	807
Name	OJ991117_07.0421.C24.o2.tw	Method	TBLASTX:Wheat
Start	2	End	151
GI	none	Score	142
Exons	2..151, 4..150, 8..151		

Seq. No.	52714	Seq. ID	OJ991117_07.0421.C24

Gene No.	111269	Strand	-
Start	1	End	807
Name	OJ991117_07.0421.C24.o1.gs	Method	GENSCAN
Start	19	End	711
GI	none	Score	.73
Exons	19..711		

Seq. No.	52714	Seq. ID	OJ991117_07.0421.C24
Gene No.	111269	Strand	-
Start	1	End	807
Name	OJ991117_07.0421.C24.o1.tw	Method	TBLASTX:Wheat
Start	152	End	601
GI	none	Score	103
Exons	152..277, 153..281, 154..282, 154..276, 310..552, 350..532, 544..600, 551..601		

Seq. No.	52715	Seq. ID	OJ991117_07.0421.C25
Gene No.	111270	Strand	+
Start	385	End	677
Name	OJ991117_07.0421.C25.o1.gs	Method	GENSCAN
Start	385	End	677
GI	none	Score	.58
Exons	385..433, 445..677		

Seq. No.	52716	Seq. ID	OJ991117_07.0421.C26
Gene No.	111271	Strand	+
Start	984	End	1365
Name	OJ991117_07.0421.C26.o1.gp	Method	AAT/GAP
Start	984	End	1365
GI	uC-osf1cyp033a04b1	Score	655
Exons	984..1365		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	52716	Seq. ID	OJ991117_07.0421.C26
Gene No.	111272	Strand	-
Start	395	End	942
Name	OJ991117_07.0421.C26.o1.gs	Method	GENSCAN
Start	395	End	942
GI	none	Score	.56
Exons	395..522, 885..942		

Seq. No.	52716	Seq. ID	OJ991117_07.0421.C26
Gene No.	111273	Strand	-
Start	913	End	2071
Name	OJ991117_07.0421.C26.o2.np	Method	AAT/NAP
Start	913	End	2071
GI	4680186	Score	241
Exons	913..1142, 1269..1353, 1873..2071		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52717	Seq. ID	OJ991117_07.0421.C30
Gene No.	111274	Strand	+
Start	1031	End	1205
Name	OJ991117_07.0421.C30.o1.gp	Method	AAT/GAP
Start	1031	End	1205
GI	none	Score	315

Exons	1031..1205		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.np	Method	AAT/NAP
Start	1	End	2712
GI	4191789	Score	763
Exons	1..133, 367..444, 526..726, 906..1001, 1507..1560, 1680..1776, 2089..2177, 2378..2434, 2664..2712		
GI Descrip.	(AC005917) putative potassium/proton antiporter [Arabidopsis thaliana]		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.tm	Method	TBLASTX:Maize
Start	76	End	2436
GI	none	Score	74
Exons	76..135, 80..151, 276..317, 362..454, 365..439, 367..453, 487..717, 524..718, 526..723, 870..1001, 892..1002, 1501..1563, 1501..1563, 1508..1567, 1674..1724, 1675..1725, 1723..1776, 1726..1773, 1960..1977, 2055..2180, 2064..2189, 2089..2190, 2355..2435, 2356..2436, 2356..2433, 2357..2434		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.gp	Method	AAT/GAP
Start	519	End	2133
GI	20474_1.R1084	Score	838
Exons	519..714, 906..1001, 1507..1560, 1680..1776, 2089..2133		
GI Descrip.	'4191789 4.0e-62 (AC005917) putative transmembrane transport protein [Arabidopsis thaliana]'		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.tc	Method	TBLASTX:Cress
Start	523	End	1563
GI	none	Score	142
Exons	523..717, 538..723, 870..1001, 892..1002, 1501..1563		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.gs	Method	GENSCAN
Start	526	End	2434
GI	none	Score	.7
Exons	526..731, 1172..1266, 1507..1560, 2089..2177, 2357..2434		

Seq. No.	52718	Seq. ID	OJ991117_07.0421.C31
Gene No.	111275	Strand	-
Start	1	End	2712
Name	OJ991117_07.0421.C31.o1.ts	Method	TBLASTX:Soybean
Start	526	End	1727
GI	none	Score	161

Exons	526..717, 584..718, 870..1001, 892..1002, 1501..1563, 1507..1566, 1665..1727, 1674..1727		
Seq. No.	52719	Seq. ID	OJ991117_07.0421.C36
Gene No.	111276	Strand	-
Start	182	End	753
Name	OJ991117_07.0421.C36.o1.gs	Method	GENSCAN
Start	182	End	727
GI	none	Score	.82
Exons	182..727		
Seq. No.	52719	Seq. ID	OJ991117_07.0421.C36
Gene No.	111276	Strand	-
Start	182	End	753
Name	OJ991117_07.0421.C36.o1.tm	Method	TBLASTX:Maize
Start	233	End	661
GI	none	Score	93
Exons	233..379, 237..380, 239..448, 243..449, 244..450, 313..528, 437..661		
Seq. No.	52719	Seq. ID	OJ991117_07.0421.C36
Gene No.	111276	Strand	-
Start	182	End	753
Name	OJ991117_07.0421.C36.o1.np	Method	AAT/NAP
Start	239	End	753
GI	7363274	Score	431
Exons	239..753		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		
Seq. No.	52720	Seq. ID	OJ991117_07.0421.C40
Gene No.	111277	Strand	+
Start	295	End	835
Name	OJ991117_07.0421.C40.o1.gs	Method	GENSCAN
Start	295	End	835
GI	none	Score	.5
Exons	295..406, 630..835		
Seq. No.	52721	Seq. ID	OJ991117_07.0421.C42
Gene No.	111278	Strand	+
Start	6239	End	6689
Name	OJ991117_07.0421.C42.o1.gp	Method	AAT/GAP
Start	6239	End	6689
GI	LIB3432-059-P1-K1-D8	Score	722
Exons	6239..6689		
GI Descrip.	'5734616/dbj\|AP000391.1\|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		
Seq. No.	52721	Seq. ID	OJ991117_07.0421.C42
Gene No.	111279	Strand	-
Start	709	End	3184
Name	OJ991117_07.0421.C42.o1.gs	Method	GENSCAN
Start	709	End	3184
GI	none	Score	.9
Exons	709..810, 2701..2886, 3002..3184		
Seq. No.	52722	Seq. ID	OJ991117_07.0421.C43

Gene No.	111280	Strand	-
Start	962	End	2564
Name	OJ991117_07.0421.C43.o2.gs	Method	GENSCAN
Start	962	End	2564
GI	none	Score	.76
Exons	962..1081, 1687..2564		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111281	Strand	+
Start	5154	End	5772
Name	OJ991117_07.0421.C44.o2.gp	Method	AAT/GAP
Start	5154	End	5772
GI	none	Score	1192
Exons	5154..5772		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111282	Strand	+
Start	8015	End	8385
Name	OJ991117_07.0421.C44.o4.gp	Method	AAT/GAP
Start	8015	End	8385
GI	none	Score	702
Exons	8015..8385		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111283	Strand	+
Start	17184	End	17275
Name	OJ991117_07.0421.C44.o7.gp	Method	AAT/GAP
Start	17184	End	17275
GI	LIB3477-003-P1-K1-E9	Score	146
Exons	17184..17275		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111284	Strand	+
Start	17660	End	19430
Name	OJ991117_07.0421.C44.o3.np	Method	AAT/NAP
Start	17660	End	19430
GI	5922620	Score	134
Exons	17660..17680, 19308..19430		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6016853\|dbj\|BAA85196.1\| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111285	Strand	-
Start	3949	End	4396
Name	OJ991117_07.0421.C44.o2.gs	Method	GENSCAN
Start	3949	End	4254
GI	none	Score	.95
Exons	3949..4254		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111285	Strand	-

Start	3949	End	4396
Name	OJ991117_07.0421.C44.o1.gp	Method	AAT/GAP
Start	3953	End	4396
GI	17176_1.R1084	Score	787
Exons	3953..4396		
GI Descrip.	'4959460/gb\|AF126053.1\|AF126053 5.0e-10 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.gs	Method	GENSCAN
Start	5508	End	14423
GI	none	Score	.41
Exons	5508..6205, 7478..7661, 8209..8312, 8453..8555, 9212..9408, 9941..10212, 10478..10820, 11152..11269, 11315..11545, 12792..13001, 13111..13251, 13373..13608, 13958..14423		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.tm	Method	TBLASTX:Maize
Start	5607	End	6059
GI	none	Score	52
Exons	5607..5648, 5608..5649, 5631..5852, 5710..5823, 5820..5879, 5821..5868, 5863..5943, 5865..5945, 5979..6059, 5982..6059		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o4.ts	Method	TBLASTX:Soybean
Start	5631	End	5928
GI	none	Score	67
Exons	5631..5813, 5725..5796, 5814..5927, 5821..5928		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o5.tc	Method	TBLASTX:Cress
Start	5637	End	5849
GI	none	Score	90
Exons	5637..5849, 5719..5847		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o1.tw	Method	TBLASTX:Wheat
Start	5727	End	6059
GI	none	Score	122
Exons	5727..5819, 5728..5823, 5790..5945, 5809..5943, 5979..6059, 5982..6059		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.gp	Method	AAT/GAP
Start	5953	End	6169

GI	568945	Score	434
Exons	5953..6169		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o1.np	Method	AAT/NAP
Start	8376	End	11428
GI	2459443	Score	1680
Exons	8376..8816, 9212..9408, 9941..10209, 10478..10820, 11239..11428		
GI Descrip.	(AC002332) putative steroid dehydrogenase [Arabidopsis thaliana]		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o2.tc	Method	TBLASTX:Cress
Start	8382	End	9298
GI	none	Score	70
Exons	8382..8540, 8385..8819, 8386..8820, 9200..9298, 9210..9284		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o1.tm	Method	TBLASTX:Maize
Start	8388	End	9280
GI	none	Score	313
Exons	8388..8426, 8397..8819, 8415..8819, 8416..8826, 8420..8830, 9203..9280, 9207..9278		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.ts	Method	TBLASTX:Soybean
Start	8538	End	10010
GI	none	Score	42
Exons	8538..8831, 8539..8577, 8605..8817, 8703..8819, 9203..9424, 9207..9416, 9212..9451, 9939..10010		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.tw	Method	TBLASTX:Wheat
Start	8584	End	8747
GI	none	Score	140
Exons	8584..8736, 8586..8747		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o3.tc	Method	TBLASTX:Cress
Start	9302	End	10534
GI	none	Score	62
Exons	9302..9424, 9318..9422, 9935..10189, 9939..10196, 9940..10200, 9952..10203, 9953..10207, 10475..10534, 10477..10533		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-

Start	5508	End	14429
Name	OJ991117_07.0421.C44.o5.gp	Method	AAT/GAP
Start	9985	End	10643
GI	35654_1.R1084	Score	736
Exons	9985..10212, 10478..10643		
GI Descrip.	'2459443 4.0e-47 (AC002332) putative NAD(P)-dependent cholesterol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o2.ts	Method	TBLASTX:Soybean
Start	10111	End	11429
GI	none	Score	103
Exons	10111..10215, 10113..10214, 10472..10831, 10477..10830, 11225..11428, 11226..11285, 11358..11429		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o2.tm	Method	TBLASTX:Maize
Start	10528	End	11305
GI	none	Score	345
Exons	10528..10827, 10529..10822, 11237..11305		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o4.tc	Method	TBLASTX:Cress
Start	10582	End	11431
GI	none	Score	175
Exons	10582..10830, 10586..10822, 11237..11431, 11358..11429		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o6.gp	Method	AAT/GAP
Start	10643	End	11485
GI	uC-osf1cyp028g03b1	Score	783
Exons	10643..10820, 11239..11485		
GI Descrip.	'2459443 2.0e-35 (AC002332) putative NAD(P)-dependent cholesterol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o6.tm	Method	TBLASTX:Maize
Start	11306	End	11453
GI	none	Score	146
Exons	11306..11452, 11306..11452, 11352..11453		

Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o2.np	Method	AAT/NAP
Start	12789	End	14429
GI	4836904	Score	1015

Exons	12789..13001, 13111..13251, 13373..13608, 13958..14429		
GI Descrip.	(AC007369) lcl\|prt_seq No definition line found [Arabidopsis thaliana] gi\|6708183\|gb\|AAF25832.1\|AF191028_1 (AF191028) papain-type cysteine endopeptidase XCP2 [Arabidopsis thaliana]		
Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o1.ts	Method	TBLASTX:Soybean
Start	12793	End	14402
GI	none	Score	180
Exons	12793..13002, 12795..13016, 13110..13235, 13111..13245, 13112..13240, 13364..13627, 13367..13609, 13434..13628, 13954..14034, 13956..14030, 14052..14402, 14053..14352		
Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o1.tc	Method	TBLASTX:Cress
Start	12795	End	14363
GI	none	Score	155
Exons	12795..13016, 12796..13002, 13111..13245, 13112..13234, 13117..13254, 13364..13435, 13436..13480, 13449..13481, 13472..13615, 13484..13627, 13485..13628, 13954..14022, 13956..14048, 14067..14363, 14098..14355		
Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o4.tm	Method	TBLASTX:Maize
Start	12795	End	13592
GI	none	Score	112
Exons	12795..13016, 12862..13002, 13116..13232, 13117..13248, 13364..13591, 13412..13588, 13431..13592		
Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o2.tw	Method	TBLASTX:Wheat
Start	13412	End	14024
GI	none	Score	74
Exons	13412..13603, 13412..13609, 13431..13610, 13446..13610, 13954..14022, 13956..14024		
Seq. No.	52723	Seq. ID	OJ991117_07.0421.C44
Gene No.	111286	Strand	-
Start	5508	End	14429
Name	OJ991117_07.0421.C44.o5.tm	Method	TBLASTX:Maize
Start	13954	End	14346
GI	none	Score	98
Exons	13954..14022, 13956..14024, 14091..14168, 14092..14169, 14175..14345, 14179..14346		
Seq. No.	52724	Seq. ID	OJ991117_07.0421.C45
Gene No.	111287	Strand	+
Start	1126	End	1227
Name	OJ991117_07.0421.C45.o1.gs	Method	GENSCAN

Start	1126	End	1227
GI	none	Score	.87
Exons	1126..1227		

Seq. No.	52724	Seq. ID	OJ991117_07.0421.C45
Gene No.	111288	Strand	-
Start	440	End	1688
Name	OJ991117_07.0421.C45.o1.np	Method	AAT/NAP
Start	440	End	1688
GI	13211	Score	286
Exons	440..547, 1477..1688		
GI Descrip.	(X52160) URF-RMC [Oryza sativa]		

Seq. No.	52724	Seq. ID	OJ991117_07.0421.C45
Gene No.	111289	Strand	-
Start	2334	End	6626
Name	OJ991117_07.0421.C45.o2.gs	Method	GENSCAN
Start	2334	End	6626
GI	none	Score	.7
Exons	2334..3170, 3965..4134, 4340..4531, 4835..4870, 5512..5565, 6509..6626		

Seq. No.	52724	Seq. ID	OJ991117_07.0421.C45
Gene No.	111289	Strand	-
Start	2334	End	6626
Name	OJ991117_07.0421.C45.o1.tm	Method	TBLASTX:Maize
Start	2891	End	3188
GI	none	Score	68
Exons	2891..2953, 2892..2954, 2957..3037, 2959..3036, 3066..3188, 3067..3180, 3077..3187		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111290	Strand	+
Start	674	End	5617
Name	OJ991117_07.0421.C46.o1.np	Method	AAT/NAP
Start	674	End	5617
GI	7228457	Score	5999
Exons	674..1040, 1102..3036, 3100..3934, 4057..5092, 5587..5617		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111291	Strand	+
Start	10425	End	12807
Name	OJ991117_07.0421.C46.o3.gs	Method	GENSCAN
Start	10425	End	12807
GI	none	Score	.71
Exons	10425..10496, 10839..11009, 12587..12677, 12788..12807		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111292	Strand	-
Start	6191	End	9849
Name	OJ991117_07.0421.C46.o2.gs	Method	GENSCAN
Start	6191	End	9849
GI	none	Score	.85
Exons	6191..7777, 7907..8065, 8231..8337, 8482..9449, 9620..9849		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111292	Strand	-
Start	6191	End	9849
Name	OJ991117_07.0421.C46.o2.np	Method	AAT/NAP
Start	6194	End	9430
GI	6907089	Score	4194
Exons	6194..8065, 8169..9430		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o6.tw	Method	TBLASTX:Wheat
Start	1331	End	1719
GI	none	Score	50
Exons	1331..1375, 1382..1480, 1399..1479, 1463..1516, 1519..1719, 1530..1685		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o3.tw	Method	TBLASTX:Wheat
Start	2457	End	2943
GI	none	Score	389
Exons	2457..2630, 2458..2943, 2652..2912		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o1.tw	Method	TBLASTX:Wheat
Start	3107	End	3563
GI	none	Score	215
Exons	3107..3550, 3108..3563, 3109..3552		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o2.ts	Method	TBLASTX:Soybean
Start	3148	End	3513
GI	none	Score	117
Exons	3148..3372, 3379..3513		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o1.tm	Method	TBLASTX:Maize
Start	3238	End	3594
GI	none	Score	386
Exons	3238..3594, 3273..3584, 3478..3594		

Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o2.tm	Method	TBLASTX:Maize
Start	3621	End	4005
GI	none	Score	362

Exons	3621..3986, 3622..4005		
Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o2.tw	Method	TBLASTX:Wheat
Start	3678	End	4098
GI	none	Score	485
Exons	3678..4073, 3679..4098		
Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o1.ts	Method	TBLASTX:Soybean
Start	3757	End	4128
GI	none	Score	281
Exons	3757..4128, 3774..3917		
Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o4.tw	Method	TBLASTX:Wheat
Start	4537	End	4995
GI	none	Score	236
Exons	4537..4758, 4561..4785, 4626..4802, 4846..4995, 4857..4994		
Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o5.tw	Method	TBLASTX:Wheat
Start	5058	End	5558
GI	none	Score	210
Exons	5058..5402, 5096..5239, 5432..5554, 5433..5558		
Seq. No.	52725	Seq. ID	OJ991117_07.0421.C46
Gene No.	111293	Strand	-
Start	14120	End	14258
Name	OJ991117_07.0421.C46.o4.gs	Method	GENSCAN
Start	14120	End	14258
GI	none	Score	.61
Exons	14120..14155, 14214..14258		
Seq. No.	52726	Seq. ID	OJ991117_07.0421.C47
Gene No.	111294	Strand	+
Start	4880	End	5201
Name	OJ991117_07.0421.C47.o2.gs	Method	GENSCAN
Start	4880	End	5201
GI	none	Score	.51
Exons	4880..4897, 4958..5201		
Seq. No.	52726	Seq. ID	OJ991117_07.0421.C47
Gene No.	111295	Strand	-
Start	927	End	3948
Name	OJ991117_07.0421.C47.o1.gs	Method	GENSCAN
Start	927	End	3948
GI	none	Score	.67
Exons	927..1043, 1527..1653, 2919..3007, 3517..3730, 3770..3948		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111296	Strand	-
Start	1	End	2573
Name	OJ991117_07.0421.C48.o1.np	Method	AAT/NAP
Start	1	End	2573
GI	6815109	Score	100
Exons	1..175, 1070..1187, 2488..2573		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111297	Strand	-
Start	3427	End	4670
Name	OJ991117_07.0421.C48.o2.np	Method	AAT/NAP
Start	3427	End	4670
GI	7228441	Score	92
Exons	3427..3466, 4501..4670		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o1.tm	Method	TBLASTX:Maize
Start	6738	End	8249
GI	none	Score	54
Exons	6738..6803, 6739..6822, 6818..6925, 6820..6915, 6822..6926, 6894..7046, 6911..7045, 6913..7074, 6914..7048, 7124..7225, 7125..7226, 7140..7226, 7658..7786, 7661..7789, 7665..7793, 7916..7987, 7920..7988, 8078..8248, 8081..8143, 8127..8249		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o1.gp	Method	AAT/GAP
Start	6745	End	8249
GI	38739_1.R1084	Score	1240
Exons	6745..7046, 7123..7223, 7661..7789, 7919..7987, 8081..8249		
GI Descrip.	'4902879/emb\|CAB43602.1\| 1.0e-24 (AJ006943) phosphoribosyl pyrophosphate synthase isozyme 4 [Spinacia oleracea]'		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o2.ts	Method	TBLASTX:Soybean
Start	6893	End	7187
GI	none	Score	112
Exons	6893..7030, 6913..7035, 6913..7029, 7134..7187		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o1.tc	Method	TBLASTX:Cress
Start	6910	End	7196
GI	none	Score	125
Exons	6910..7044, 6911..7045, 6914..7063, 7122..7196		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48

Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o2.gs	Method	GENSCAN
Start	6913	End	8239
GI	none	Score	.79
Exons	6913..7046, 7124..7223, 7661..7825, 7919..7987, 8081..8239		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o3.np	Method	AAT/NAP
Start	6916	End	8249
GI	4902879	Score	722
Exons	6916..7043, 7124..7223, 7661..7789, 7919..7987, 8081..8249		
GI Descrip.	(AJ006943) phosphoribosyl pyrophosphate synthase isozyme 4 [Spinacia oleracea]		

Seq. No.	52727	Seq. ID	OJ991117_07.0421.C48
Gene No.	111298	Strand	-
Start	6913	End	8249
Name	OJ991117_07.0421.C48.o1.ts	Method	TBLASTX:Soybean
Start	7746	End	8249
GI	none	Score	57
Exons	7746..7790, 7748..7789, 7916..7987, 7917..7982, 8073..8249, 8078..8248		

Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o1.gp	Method	AAT/GAP
Start	1	End	435
GI	71940_1.R1084	Score	625
Exons	1..43, 146..435		
GI Descrip.	'4512664/gb\|AAD21718.1\| 4.0e-32 (AC006931) putative ribose phosphate pyrophosphokinase [Arabidopsis thaliana] >gi_4544471_gb_AAD22378.1_AC006580_10 (AC006580) putative ribose phosphate pyrophosphokinase [Arabidopsis thaliana] >gi_4902472_emb_CAB43553.1_ (AJ012407) phosphoribosyl diphosphate synthase [Arabidopsis thaliana]'		

Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o1.np	Method	AAT/NAP
Start	1	End	318
GI	4512664	Score	146
Exons	1..43, 146..318		
GI Descrip.	(AC006931) putative ribose phosphate pyrophosphokinase [Arabidopsis thaliana] gi\|4902472\|emb\|CAB43553.1\| (AJ012407) phosphoribosyl diphosphate synthase [Arabidopsis thaliana]		

Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o2.tm	Method	TBLASTX:Maize
Start	1	End	261
GI	none	Score	64

Exons	1..45, 2..43, 4..90, 145..237, 145..261, 149..250		
Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o1.gs	Method	GENSCAN
Start	146	End	2223
GI	none	Score	.53
Exons	146..410, 1989..2033, 2096..2223		
Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o1.tm	Method	TBLASTX:Maize
Start	1631	End	2314
GI	none	Score	35
Exons	1631..1669, 1743..1787, 1744..1788, 1785..1832, 1806..1832, 1976..2128, 1984..2091, 2003..2125, 2130..2312, 2131..2313, 2132..2314		
Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o2.gp	Method	AAT/GAP
Start	1734	End	2116
GI	none	Score	736
Exons	1734..2116		
Seq. No.	52728	Seq. ID	OJ991117_07.0421.C49
Gene No.	111299	Strand	-
Start	1	End	2314
Name	OJ991117_07.0421.C49.o1.tc	Method	TBLASTX:Cress
Start	2024	End	2314
GI	none	Score	49
Exons	2024..2125, 2028..2123, 2137..2313, 2141..2314		
Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111300	Strand	+
Start	6424	End	10905
Name	OJ991117_07.0421.C50.o2.gs	Method	GENSCAN
Start	6424	End	10502
GI	none	Score	.59
Exons	6424..6486, 6636..6705, 6824..6943, 7304..7997, 8096..8135, 8306..8358, 8450..8495, 8564..8641, 9066..9158, 10383..10502		
Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111300	Strand	+
Start	6424	End	10905
Name	OJ991117_07.0421.C50.o2.np	Method	AAT/NAP
Start	7444	End	10905
GI	6642669	Score	270
Exons	7444..7806, 7838..7997, 8096..8135, 8306..8402, 8450..8495, 9066..9178, 10398..10523, 10877..10905		
GI Descrip.	(AC015450) putative DNA-binding protein [Arabidopsis thaliana]		
Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-

Start	184	End	4775
Name	OJ991117_07.0421.C50.o2.tm	Method	TBLASTX:Maize
Start	141	End	457
GI	none	Score	305
Exons	141..437, 141..455, 142..456, 155..457		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o1.gs	Method	GENSCAN
Start	184	End	4775
GI	none	Score	.94
Exons	184..834, 1298..2127, 2209..2375, 2474..2815, 3253..3333, 3583..3640, 3775..3889, 4160..4221, 4429..4775		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o2.ts	Method	TBLASTX:Soybean
Start	483	End	844
GI	none	Score	181
Exons	483..662, 488..652, 662..844, 666..830		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o3.tm	Method	TBLASTX:Maize
Start	583	End	1655
GI	none	Score	317
Exons	583..837, 584..844, 585..836, 586..837, 1296..1394, 1297..1350, 1341..1619, 1356..1655, 1501..1620		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o1.tw	Method	TBLASTX:Wheat
Start	600	End	1467
GI	none	Score	302
Exons	600..836, 602..844, 1296..1355, 1302..1355, 1353..1466, 1361..1465, 1372..1467		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o2.tc	Method	TBLASTX:Cress
Start	614	End	848
GI	none	Score	137
Exons	614..847, 624..848		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o1.ts	Method	TBLASTX:Soybean
Start	1767	End	2360
GI	none	Score	192
Exons	1767..2126, 1768..2127, 2209..2286, 2220..2360		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o1.tm	Method	TBLASTX:Maize
Start	2262	End	3390
GI	none	Score	74
Exons	2262..2372, 2262..2384, 2263..2376, 2471..2815, 2474..2536, 2487..2816, 2496..2831, 2573..2827, 3247..3390, 3250..3336, 3252..3362		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111301	Strand	-
Start	184	End	4775
Name	OJ991117_07.0421.C50.o1.tc	Method	TBLASTX:Cress
Start	4446	End	4760
GI	none	Score	101
Exons	4446..4580, 4447..4566, 4617..4760, 4618..4731		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111302	Strand	
Start	7852	End	10508
Name	OJ991117_07.0421.C50.o3.ts	Method	TBLASTX:Soybean
Start	7852	End	8501
GI	none	Score	179
Exons	7852..7998, 8094..8144, 8303..8359, 8305..8358, 8448..8501, 8450..8494		

Seq. No.	52729	Seq. ID	OJ991117_07.0421.C50
Gene No.	111302	Strand	
Start	7852	End	10508
Name	OJ991117_07.0421.C50.o4.tm	Method	TBLASTX:Maize
Start	7876	End	10508
GI	none	Score	196
Exons	7876..7998, 7932..8000, 8094..8144, 8299..8355, 8303..8359, 8450..8494, 8451..8501, 9063..9167, 9066..9161, 10385..10507, 10440..10508		

Seq. No.	52730	Seq. ID	OJ991117_07.0421.C51
Gene No.	111303	Strand	-
Start	70	End	1499
Name	OJ991117_07.0421.C51.o1.np	Method	AAT/NAP
Start	70	End	1499
GI	6907088	Score	718
Exons	70..535, 1018..1187, 1362..1499		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52731	Seq. ID	OJ991117_07.0421.C52
Gene No.	111304	Strand	-
Start	9	End	336
Name	OJ991117_07.0421.C52.o1.gs	Method	GENSCAN
Start	9	End	336
GI	none	Score	.58
Exons	9..119, 334..336		

Seq. No.	52732	Seq. ID	OJ991117_07.0421.C53
Gene No.	111305	Strand	+
Start	6895	End	7194

Name	OJ991117_07.0421.C53.o2.gs	Method	GENSCAN
Start	6895	End	7194
GI	none	Score	.48
Exons	6895..7194		

Seq. No.	52732	Seq. ID	OJ991117_07.0421.C53
Gene No.	111306	Strand	+
Start	8824	End	9008
Name	OJ991117_07.0421.C53.o1.gp	Method	AAT/GAP
Start	8824	End	9008
GI	426253	Score	326
Exons	8824..9008		

Seq. No.	52732	Seq. ID	OJ991117_07.0421.C53
Gene No.	111307	Strand	-
Start	7624	End	8146
Name	OJ991117_07.0421.C53.o3.gs	Method	GENSCAN
Start	7624	End	8146
GI	none	Score	.76
Exons	7624..7693, 8055..8146		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111308	Strand	+
Start	1624	End	1878
Name	OJ991117_07.0421.C55.o1.np	Method	AAT/NAP
Start	1624	End	1878
GI	6539570	Score	30
Exons	1624..1878		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111309	Strand	+
Start	2601	End	3945
Name	OJ991117_07.0421.C55.o3.np	Method	AAT/NAP
Start	2601	End	3945
GI	6630699	Score	104
Exons	2601..2816, 3851..3945		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi\|6721536\|dbj\|BAA89566.1\| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111310	Strand	+
Start	4072	End	4530
Name	OJ991117_07.0421.C55.o4.np	Method	AAT/NAP
Start	4072	End	4530
GI	6539570	Score	154
Exons	4072..4275, 4464..4530		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111311	Strand	-
Start	460	End	5228
Name	OJ991117_07.0421.C55.o1.gs	Method	GENSCAN
Start	460	End	2963
GI	none	Score	.62
Exons	460..471, 773..798, 899..920, 1002..1248, 1550..1617,		

1681..1882, 1980..2124, 2396..2598, 2860..2963

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111311	Strand	-
Start	460	End	5228
Name	OJ991117_07.0421.C55.o2.np	Method	AAT/NAP
Start	2002	End	5228
GI	5852093	Score	58
Exons	2002..2087, 3714..3885, 5158..5228		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111311	Strand	-
Start	460	End	5228
Name	OJ991117_07.0421.C55.o2.gs	Method	GENSCAN
Start	3199	End	3903
GI	none	Score	.63
Exons	3199..3332, 3518..3604, 3864..3903		

Seq. No.	52733	Seq. ID	OJ991117_07.0421.C55
Gene No.	111311	Strand	-
Start	460	End	5228
Name	OJ991117_07.0421.C55.o3.gs	Method	GENSCAN
Start	4114	End	4824
GI	none	Score	.58
Exons	4114..4195, 4790..4824		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111312	Strand	+
Start	477	End	1152
Name	OJ991117_07.0421.C56.o1.gs	Method	GENSCAN
Start	477	End	1152
GI	none	Score	.7
Exons	477..558, 1040..1152		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-
Start	1451	End	2608
Name	OJ991117_07.0421.C56.o1.gp	Method	AAT/GAP
Start	1451	End	2432
GI	2058_1.R1084	Score	1841
Exons	1451..2432		
GI Descrip.	'1345977/sp\|P48631\|FD62_SOYBN 2.0e-67 OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM ISOZYME 2 >gi_904154 (L43921) microsomal omega-6 desaturase [Glycine max]'		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-
Start	1451	End	2608
Name	OJ991117_07.0421.C56.o1.tm	Method	TBLASTX:Maize
Start	1718	End	2608
GI	none	Score	66
Exons	1718..1783, 1746..1781, 1929..2144, 1990..2607, 2004..2606, 2561..2608		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-

Start	1451	End	2608
Name	OJ991117_07.0421.C56.o2.gs	Method	GENSCAN
Start	2001	End	2471
GI	none	Score	.79
Exons	2001..2471		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-
Start	1451	End	2608
Name	OJ991117_07.0421.C56.o1.np	Method	AAT/NAP
Start	2004	End	2608
GI	1345977	Score	880
Exons	2004..2608		
GI Descrip.	OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM ISOZYME 2 gi\|904154 (L43921) microsomal omega-6 desaturase [Glycine max]		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-
Start	1451	End	2608
Name	OJ991117_07.0421.C56.o1.tc	Method	TBLASTX:Cress
Start	2005	End	2595
GI	none	Score	48
Exons	2005..2040, 2007..2039, 2040..2594, 2041..2595		

Seq. No.	52734	Seq. ID	OJ991117_07.0421.C56
Gene No.	111313	Strand	-
Start	1451	End	2608
Name	OJ991117_07.0421.C56.o1.ts	Method	TBLASTX:Soybean
Start	2005	End	2595
GI	none	Score	54
Exons	2005..2040, 2007..2039, 2032..2595, 2034..2594		

Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111314	Strand	+
Start	23	End	4224
Name	OJ991117_07.0421.C57.o2.np	Method	AAT/NAP
Start	23	End	4224
GI	5726567	Score	62
Exons	23..73, 2747..2792, 3653..3690, 4058..4224		
GI Descrip.	(AF169205) glycine-rich RNA-binding protein [Glycine max]		

Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o1.gp	Method	AAT/GAP
Start	1	End	84
GI	74085_1.R1084	Score	142
Exons	1..84		
GI Descrip.	'1054843/emb\|CAA63432\| 3.0e-42 (X92847) D12 oleate desaturase [Solanum commersonii]'		

Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o1.np	Method	AAT/NAP
Start	1	End	474
GI	6118361	Score	530

Exons	1..474		
GI Descrip.	(AF188264) delta-12 oleate desaturase [Vernonia galamensis]		
Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o1.tc	Method	TBLASTX:Cress
Start	4	End	390
GI	none	Score	37
Exons	4..21, 22..390, 26..202, 290..388		
Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o1.tm	Method	TBLASTX:Maize
Start	4	End	480
GI	none	Score	37
Exons	4..21, 22..357, 22..462, 23..415, 397..477, 454..480		
Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o1.ts	Method	TBLASTX:Soybean
Start	22	End	393
GI	none	Score	118
Exons	22..207, 22..393, 26..223, 275..388		
Seq. No.	52735	Seq. ID	OJ991117_07.0421.C57
Gene No.	111315	Strand	-
Start	1	End	610
Name	OJ991117_07.0421.C57.o2.gp	Method	AAT/GAP
Start	81	End	610
GI	29396_1.R1084	Score	1040
Exons	81..610		
GI Descrip.	'1054843/emb\|CAA63432\| 1.0e-39 (X92847) D12 oleate desaturase [Solanum commersonii]'		
Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111316	Strand	+
Start	452	End	718
Name	OJ991117_07.0421.C58.o1.gp	Method	AAT/GAP
Start	452	End	718
GI	none	Score	534
Exons	452..718		
Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o1.gs	Method	GENSCAN
Start	29	End	5538
GI	none	Score	.71
Exons	29..140, 663..1506, 2031..2590, 2708..2925, 3591..3688, 5106..5190, 5394..5538		
Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819

Name	OJ991117_07.0421.C58.o1.np	Method	AAT/NAP
Start	660	End	3708
GI	7488004	Score	1604
Exons	660..1506, 2031..2590, 2708..2886, 3591..3708		
GI Descrip.	peptide transport protein homolog F17L22.140 - Arabidopsis thaliana gi\|4455276\|emb\|CAB36812.1\| (AL035527) peptide transporter-like protein [Arabidopsis thaliana] gi\|7268965\|emb\|CAB81275.1\| (AL161555) peptide transporter-like protein [Arabidopsis thaliana]		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o1.tc	Method	TBLASTX:Cress
Start	696	End	3673
GI	none	Score	91
Exons	696..1052, 892..1038, 1144..1440, 1149..1490, 1248..1445, 2039..2104, 2099..2524, 2115..2462, 2714..2851, 3584..3673, 3589..3672		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o1.tm	Method	TBLASTX:Maize
Start	705	End	2524
GI	none	Score	128
Exons	705..1052, 715..1053, 1131..1187, 1144..1443, 1149..1454, 1278..1460, 1455..1508, 1456..1515, 2099..2305, 2115..2279, 2309..2365, 2358..2486, 2360..2524		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o1.tw	Method	TBLASTX:Wheat
Start	715	End	1037
GI	none	Score	162
Exons	715..1035, 717..1037		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o2.ts	Method	TBLASTX:Soybean
Start	780	End	3699
GI	none	Score	59
Exons	780..1043, 1149..1442, 1360..1443, 2114..2215, 3544..3699		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819
Name	OJ991117_07.0421.C58.o1.ts	Method	TBLASTX:Soybean
Start	2276	End	2869
GI	none	Score	218
Exons	2276..2590, 2277..2591, 2703..2813, 2711..2848, 2723..2869		

Seq. No.	52736	Seq. ID	OJ991117_07.0421.C58
Gene No.	111317	Strand	-
Start	29	End	5819

Name	OJ991117_07.0421.C58.o2.gp	Method	AAT/GAP
Start	4985	End	5819
GI	none	Score	702
Exons	4985..5033, 5394..5515, 5596..5819		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o1.np	Method	AAT/NAP
Start	1784	End	27436
GI	6599134	Score	108
Exons	1784..2163, 4134..4336, 13281..13360, 14176..14535, 14815..14942, 27404..27436		
GI Descrip.	(AL133561) hypothetical protein [Homo sapiens]		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o2.gs	Method	GENSCAN
Start	3997	End	5500
GI	none	Score	.79
Exons	3997..4339, 5172..5500		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o1.gp	Method	AAT/GAP
Start	4000	End	4304
GI	2442583	Score	526
Exons	4000..4304		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o2.gp	Method	AAT/GAP
Start	8090	End	8446
GI	2309883	Score	509
Exons	8090..8446		
GI Descrip.	2149018/gb\|U70541\|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o3.gs	Method	GENSCAN
Start	11587	End	16626
GI	none	Score	.47
Exons	11587..11930, 12002..12023, 13050..13475, 14444..14465, 14574..14960, 16484..16626		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o3.gp	Method	AAT/GAP
Start	14324	End	16852
GI	3361_1.R1084	Score	1649

Exons	14324..14465, 14604..14960, 16484..16852		
GI Descrip.	'2149018/gb\|U70541\|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o2.np	Method	AAT/NAP
Start	14630	End	16629
GI	7487410	Score	475
Exons	14630..14960, 16484..16629		
GI Descrip.	hypothetical protein T24P15.12 - Arabidopsis thaliana gi\|2673912\|gb\|AAB88646.1\| (AC002561) unknown protein [Arabidopsis thaliana]		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111318	Strand	+
Start	1784	End	27436
Name	OJ991117_07.0421.C59.o4.gp	Method	AAT/GAP
Start	21932	End	22420
GI	none	Score	967
Exons	21932..22420		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111319	Strand	-
Start	18145	End	18273
Name	OJ991117_07.0421.C59.o4.gs	Method	GENSCAN
Start	18145	End	18273
GI	none	Score	.42
Exons	18145..18273		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o2.tm	Method	TBLASTX:Maize
Start	3993	End	5646
GI	none	Score	50
Exons	3993..4058, 3997..4032, 4033..4059, 4090..4332, 4110..4340, 4111..4341, 5167..5535, 5168..5527, 5174..5545, 5176..5538, 5487..5543, 5567..5629, 5569..5628, 5584..5646		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o3.ts	Method	TBLASTX:Soybean
Start	3997	End	5212
GI	none	Score	56
Exons	3997..4059, 4110..4340, 4111..4341, 5168..5212		
Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o2.tc	Method	TBLASTX:Cress
Start	5231	End	5491
GI	none	Score	95
Exons	5231..5287, 5233..5490, 5288..5491		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o3.tw	Method	TBLASTX:Wheat
Start	5389	End	5686
GI	none	Score	184
Exons	5389..5499, 5390..5500, 5502..5543, 5560..5625, 5567..5626, 5567..5686		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o3.tm	Method	TBLASTX:Maize
Start	14657	End	16832
GI	none	Score	313
Exons	14657..14962, 14722..14982, 16481..16678, 16483..16680, 16504..16746, 16680..16727, 16681..16764, 16800..16832		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o3.tc	Method	TBLASTX:Cress
Start	14660	End	16560
GI	none	Score	248
Exons	14660..14959, 14728..14877, 16486..16560		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o4.ts	Method	TBLASTX:Soybean
Start	14722	End	16620
GI	none	Score	270
Exons	14722..15009, 14723..14962, 16483..16620		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o4.tw	Method	TBLASTX:Wheat
Start	16481	End	16803
GI	none	Score	176
Exons	16481..16642, 16483..16617, 16612..16659, 16668..16718, 16669..16722, 16741..16803, 16763..16801		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o1.tm	Method	TBLASTX:Maize
Start	21824	End	25910
GI	none	Score	171
Exons	21824..21880, 21994..22059, 22083..22139, 22229..22255, 22304..22345, 22457..22546, 22482..22682, 22592..22684, 23586..23708, 23596..23724, 23597..23707, 23598..23708, 23782..24090, 23782..24093, 23782..24027, 23783..24094, 23783..24094, 23845..24081, 24318..24467, 24346..24471, 24346..24471, 24585..24638, 24586..24642, 24588..24632, 24700..24762, 24703..24762, 24705..24764, 25060..25269,		

25074..25265, 25107..25289, 25401..25472, 25402..25476,
25402..25473, 25546..25647, 25547..25651, 25548..25694,
25549..25701, 25784..25909, 25799..25909, 25815..25910

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o6.gs	Method	GENSCAN
Start	22199	End	27286
GI	none	Score	.92
Exons	22199..22681, 23136..23204, 23598..23705, 23782..24091, 24589..24629, 24703..24759, 25107..25265, 25784..25915, 26332..26502, 26576..26776, 27164..27286		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o3.np	Method	AAT/NAP
Start	22208	End	27436
GI	4678943	Score	1531
Exons	22208..22273, 22346..22681, 23136..23254, 23609..23705, 23782..24091, 24346..24465, 24703..24725, 25107..25265, 25545..25685, 25784..25915, 26164..26266, 26328..26502, 26576..26776, 27249..27436		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o1.tc	Method	TBLASTX:Cress
Start	23782	End	24629
GI	none	Score	35
Exons	23782..23997, 23789..23812, 23794..24093, 23804..24094, 24318..24467, 24346..24471, 24349..24471, 24586..24627, 24588..24629		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o1.ts	Method	TBLASTX:Soybean
Start	23782	End	24435
GI	none	Score	243
Exons	23782..24042, 23815..24090, 23816..24088, 24016..24090, 24318..24434, 24339..24434, 24352..24435		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o5.gp	Method	AAT/GAP
Start	23932	End	24410
GI	LIB3434-013-P1-K1-D9	Score	331
Exons	23932..24091, 24346..24410		
GI Descrip.	'4678943/emb\|CAB41334.1\| 2.0e-25 (AL049711) putative protein [Arabidopsis thaliana]'		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-

Start	22199	End	27436
Name	OJ991117_07.0421.C59.o2.tw	Method	TBLASTX:Wheat
Start	24594	End	25577
GI	none	Score	62
Exons	24594..24632, 24595..24636, 24700..24762, 24705..24758, 25106..25156, 25107..25265, 25108..25272, 25110..25289, 25238..25267, 25400..25474, 25401..25472, 25403..25495, 25548..25577		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o2.ts	Method	TBLASTX:Soybean
Start	25859	End	26674
GI	none	Score	115
Exons	25859..25918, 26164..26211, 26220..26261, 26326..26502, 26330..26479, 26331..26504, 26571..26645, 26574..26624, 26576..26674		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o1.tw	Method	TBLASTX:Wheat
Start	26326	End	26777
GI	none	Score	233
Exons	26326..26502, 26330..26479, 26330..26503, 26331..26516, 26571..26687, 26575..26694, 26576..26683, 26733..26777		

Seq. No.	52737	Seq. ID	OJ991117_07.0421.C59
Gene No.	111320	Strand	-
Start	22199	End	27436
Name	OJ991117_07.0421.C59.o4.tm	Method	TBLASTX:Maize
Start	26365	End	26777
GI	none	Score	148
Exons	26365..26502, 26366..26482, 26589..26687, 26591..26683, 26724..26777		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o1.np	Method	AAT/NAP
Start	1	End	5646
GI	4678943	Score	1661
Exons	1..22, 242..360, 1031..1135, 1684..1941, 2008..2110, 2377..2538, 2575..2713, 3150..3251, 3339..3532, 3665..3824, 3962..4099, 4187..4376, 4455..4517, 5259..5429, 5622..5646		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o1.gs	Method	GENSCAN
Start	242	End	5462
GI	none	Score	.84
Exons	242..360, 1031..1135, 1732..2110, 2377..2505, 2578..2713, 3150..3270, 3379..3532, 3665..3824, 3959..4099, 4187..4376, 4455..4516, 5234..5462		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o2.ts	Method	TBLASTX:Soybean
Start	2047	End	2633
GI	4405522	Score	103
Exons	2047..2118, 2349..2507, 2358..2519, 2371..2523, 2571..2633, 2585..2632		
GI Descrip.	3122264/sp_O15818_IF31_DICDI 1.0e-17 PUTATIVE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 ALPHA SUBUNIT (EIF-3 ALPHA) (EIF3 P150) >gi_2281117 (U49332) 150-kD protein [Dictyostelium discoideum]		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o1.tm	Method	TBLASTX:Maize
Start	3191	End	3574
GI	none	Score	65
Exons	3191..3250, 3193..3249, 3334..3564, 3355..3564, 3356..3574		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o1.ts	Method	TBLASTX:Soybean
Start	4191	End	4515
GI	none	Score	120
Exons	4191..4370, 4191..4382, 4285..4377, 4452..4514, 4455..4514, 4459..4515		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o2.tm	Method	TBLASTX:Maize
Start	4270	End	5465
GI	none	Score	153
Exons	4270..4377, 4272..4382, 4285..4380, 4431..4517, 4451..4510, 4453..4518, 5244..5336, 5313..5372, 5418..5465		

Seq. No.	52738	Seq. ID	OJ991117_07.0421.C60
Gene No.	111321	Strand	-
Start	1	End	5646
Name	OJ991117_07.0421.C60.o1.gp	Method	AAT/GAP
Start	4318	End	5471
GI	uC-osrocyp011g10b1	Score	663
Exons	4318..4376, 4455..4516, 5234..5471		
GI Descrip.	'4678943/emb\|CAB41334.1\| 7.0e-16 (AL049711) putative protein [Arabidopsis thaliana]'		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111322	Strand	+
Start	1	End	3373
Name	OJ991117_07.0421.C61.o1.np	Method	AAT/NAP
Start	1	End	948
GI	6815109	Score	160
Exons	1..43, 692..948		

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111322	Strand	+
Start	1	End	3373
Name	OJ991117_07.0421.C61.o2.np	Method	AAT/NAP
Start	1	End	3373
GI	6815109	Score	161
Exons	1..43, 692..930, 3314..3373		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111322	Strand	+
Start	1	End	3373
Name	OJ991117_07.0421.C61.o1.gs	Method	GENSCAN
Start	1134	End	1506
GI	none	Score	.74
Exons	1134..1350, 1493..1506		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111323	Strand	+
Start	5850	End	9552
Name	OJ991117_07.0421.C61.o3.gs	Method	GENSCAN
Start	5850	End	9552
GI	none	Score	.72
Exons	5850..5918, 8022..8396, 8583..8723, 9036..9104, 9346..9552		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111323	Strand	+
Start	5850	End	9552
Name	OJ991117_07.0421.C61.o1.gp	Method	AAT/GAP
Start	8618	End	9485
GI	2310358	Score	751
Exons	8618..8756, 8870..8962, 9036..9104, 9346..9485		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111324	Strand	+
Start	9864	End	9965
Name	OJ991117_07.0421.C61.o2.gp	Method	AAT/GAP
Start	9864	End	9965
GI	2797419	Score	125
Exons	9864..9965		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o2.gs	Method	GENSCAN
Start	3023	End	4918
GI	none	Score	.86
Exons	3023..3078, 4127..4191, 4785..4918		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o3.np	Method	AAT/NAP
Start	3150	End	9547
GI	3935149	Score	142

Exons	3150..3174, 3833..3900, 4697..5158, 5222..5323, 9525..9547		
GI Descrip.	(AC005106) T25N20.13 [Arabidopsis thaliana]		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o1.tm	Method	TBLASTX:Maize
Start	8103	End	9969
GI	none	Score	315
Exons	8103..8399, 8141..8398, 8566..8751, 8580..8756, 8581..8763, 8582..8758, 8867..8962, 8869..8967, 8879..8965, 9035..9103, 9036..9104, 9335..9538, 9343..9552, 9344..9550, 9345..9551, 9345..9554, 9346..9561, 9866..9892, 9868..9888, 9895..9969, 9896..9967		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o1.ts	Method	TBLASTX:Soybean
Start	8142	End	9417
GI	none	Score	46
Exons	8142..8177, 8229..8399, 8234..8380, 8580..8756, 8582..8614, 8675..8764, 8860..8967, 8879..8965, 9035..9103, 9036..9101, 9041..9127, 9345..9416, 9346..9417		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o2.tc	Method	TBLASTX:Cress
Start	8142	End	8705
GI	none	Score	50
Exons	8142..8180, 8231..8398, 8232..8399, 8580..8705		

Seq. No.	52739	Seq. ID	OJ991117_07.0421.C61
Gene No.	111325	Strand	-
Start	3023	End	9969
Name	OJ991117_07.0421.C61.o1.tc	Method	TBLASTX:Cress
Start	8730	End	9498
GI	none	Score	47
Exons	8730..8756, 8854..8967, 8879..8965, 9035..9100, 9036..9104, 9345..9494, 9346..9498		

Seq. No.	52740	Seq. ID	OJ991117_07.0421.C62
Gene No.	111326	Strand	+
Start	79	End	250
Name	OJ991117_07.0421.C62.o1.gs	Method	GENSCAN
Start	79	End	250
GI	none	Score	.67
Exons	79..250		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111327	Strand	+
Start	223	End	1432
Name	OJ991117_08.0421.C1.o1.gs	Method	GENSCAN
Start	223	End	1432
GI	none	Score	.57
Exons	223..378, 475..678, 1075..1173, 1259..1432		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111328	Strand	+
Start	1581	End	3853
Name	OJ991117_08.0421.C1.o1.np	Method	AAT/NAP
Start	1581	End	3853
GI	862343	Score	142
Exons	1581..1757, 3776..3853		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi\|1092097\|prf\|\|2022314A granule cell marker protein [Mus musculus] gi\|1092098\|prf\|\|2022315A granule cell marker protein [Mus musculus]		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111329	Strand	+
Start	15449	End	22364
Name	OJ991117_08.0421.C1.o5.gs	Method	GENSCAN
Start	15449	End	18183
GI	none	Score	.44
Exons	15449..15646, 15652..15865, 15904..17210, 17935..18183		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111329	Strand	+
Start	15449	End	22364
Name	OJ991117_08.0421.C1.o2.np	Method	AAT/NAP
Start	15524	End	20302
GI	7228438	Score	1604
Exons	15524..16004, 16101..17570, 19029..19545, 19651..19956, 20055..20302		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111329	Strand	+
Start	15449	End	22364
Name	OJ991117_08.0421.C1.o6.gs	Method	GENSCAN
Start	18583	End	22349
GI	none	Score	.56
Exons	18583..18731, 18856..19408, 19737..19948, 20041..20165, 20200..20308, 20623..20942, 22028..22088, 22190..22349		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111329	Strand	+
Start	15449	End	22364
Name	OJ991117_08.0421.C1.o3.np	Method	AAT/NAP
Start	21901	End	22364
GI	7340909	Score	129
Exons	21901..22364		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111330	Strand	-
Start	3483	End	5273
Name	OJ991117_08.0421.C1.o2.gs	Method	GENSCAN
Start	3483	End	5273
GI	none	Score	.7

Exons	3483..3582, 4489..4574, 5205..5273		
Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111331	Strand	
Start	16541	End	17219
Name	OJ991117_08.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	16541	End	17123
GI	none	Score	131
Exons	16541..16663, 16542..16697, 16701..16982, 16706..16999, 16713..17003, 17043..17123		
Seq. No.	52741	Seq. ID	OJ991117_08.0421.C1
Gene No.	111331	Strand	
Start	16541	End	17219
Name	OJ991117_08.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	16832	End	17219
GI	none	Score	189
Exons	16832..16981, 16833..17009, 16833..17006, 17021..17077, 17022..17219, 17034..17123, 17056..17142		
Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111332	Strand	+
Start	3445	End	8487
Name	OJ991117_08.0421.C2.o4.np	Method	AAT/NAP
Start	3445	End	8487
GI	4680186	Score	376
Exons	3445..3490, 7399..7450, 8287..8487		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111333	Strand	-
Start	1	End	5295
Name	OJ991117_08.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	1757
GI	7340909	Score	161
Exons	1..146, 264..468, 1721..1757		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111333	Strand	-
Start	1	End	5295
Name	OJ991117_08.0421.C2.o3.np	Method	AAT/NAP
Start	13	End	5295
GI	5042434	Score	666
Exons	13..66, 3132..4784, 4943..5017, 5235..5295		
GI Descrip.	(AC006193) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111333	Strand	-
Start	1	End	5295
Name	OJ991117_08.0421.C2.o2.gs	Method	GENSCAN
Start	2860	End	5279
GI	none	Score	.63
Exons	2860..4797, 4923..5130, 5257..5279		
Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-

Start	7562	End	8420
Name	OJ991117_08.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	3277	End	3624
GI	none	Score	124
Exons	3277..3624, 3365..3478, 3367..3564		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o2.tw	Method	TBLASTX:Wheat
Start	3347	End	3621
GI	none	Score	113
Exons	3347..3601, 3352..3621, 3353..3478, 3394..3567		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o2.ts	Method	TBLASTX:Soybean
Start	3355	End	3673
GI	none	Score	81
Exons	3355..3672, 3602..3673		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	3604	End	4008
GI	none	Score	205
Exons	3604..3879, 3630..3794, 3631..4008		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	3622	End	4006
GI	none	Score	177
Exons	3622..4002, 3623..4006, 3717..4004		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	3676	End	4365
GI	none	Score	74
Exons	3676..4158, 3896..4099, 4270..4365		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	3896	End	4497
GI	none	Score	129
Exons	3896..4267, 3907..4158, 3912..4181, 4276..4497		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420

Name	OJ991117_08.0421.C2.o3.gs	Method	GENSCAN
Start	7562	End	8242
GI	none	Score	.83
Exons	7562..7599, 8167..8242		

Seq. No.	52742	Seq. ID	OJ991117_08.0421.C2
Gene No.	111334	Strand	-
Start	7562	End	8420
Name	OJ991117_08.0421.C2.o1.gp	Method	AAT/GAP
Start	8039	End	8420
GI	uC-osflcyp033a04b1	Score	679
Exons	8039..8420		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o1.np	Method	AAT/NAP
Start	232	End	4740
GI	4680179	Score	5360
Exons	232..3633, 3667..4740		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o6.tw	Method	TBLASTX:Wheat
Start	277	End	610
GI	none	Score	111
Exons	277..609, 298..606, 341..610		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	457	End	1056
GI	none	Score	215
Exons	457..897, 473..895, 895..1056, 902..1048		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o1.tw	Method	TBLASTX:Wheat
Start	610	End	1236
GI	none	Score	227
Exons	610..1236, 722..1180		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o4.tm	Method	TBLASTX:Maize
Start	1105	End	1396
GI	none	Score	204
Exons	1105..1395, 1109..1396		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3

Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o2.ts	Method	TBLASTX:Soybean
Start	1195	End	1455
GI	none	Score	144
Exons	1195..1455, 1196..1450		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	1219	End	1536
GI	none	Score	85
Exons	1219..1362, 1220..1360, 1363..1536		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o2.tw	Method	TBLASTX:Wheat
Start	1243	End	5039
GI	none	Score	343
Exons	1243..1779, 1244..1810, 4977..5039		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	1801	End	2164
GI	none	Score	169
Exons	1801..2163, 1810..2163, 1814..2164		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o3.tw	Method	TBLASTX:Wheat
Start	1813	End	2235
GI	none	Score	356
Exons	1813..2235, 1814..2203		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o3.ts	Method	TBLASTX:Soybean
Start	1984	End	2229
GI	none	Score	99
Exons	1984..2229, 1985..2227		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	2200	End	2700
GI	none	Score	50
Exons	2200..2514, 2243..2293, 2321..2374, 2521..2700, 2573..2692		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-

Start	232	End	5039
Name	OJ991117_08.0421.C3.o5.tw	Method	TBLASTX:Wheat
Start	2236	End	2538
GI	none	Score	100
Exons	2236..2538, 2242..2367, 2252..2536		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	2251	End	2646
GI	none	Score	187
Exons	2251..2610, 2252..2542, 2410..2610, 2614..2646, 2615..2644		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o4.tw	Method	TBLASTX:Wheat
Start	2587	End	3073
GI	none	Score	234
Exons	2587..2964, 2630..3073		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o5.tm	Method	TBLASTX:Maize
Start	2713	End	3099
GI	none	Score	260
Exons	2713..3099		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o8.tw	Method	TBLASTX:Wheat
Start	3169	End	3606
GI	none	Score	68
Exons	3169..3210, 3238..3351, 3239..3352, 3397..3606, 3398..3550		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o7.tm	Method	TBLASTX:Maize
Start	3289	End	3642
GI	none	Score	186
Exons	3289..3642		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o7.tw	Method	TBLASTX:Wheat
Start	3913	End	4264
GI	none	Score	109
Exons	3913..4263, 4070..4264		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039

Name	OJ991117_08.0421.C3.o6.tm	Method	TBLASTX:Maize
Start	3958	End	4263
GI	none	Score	87
Exons	3958..4263, 4133..4249		

Seq. No.	52743	Seq. ID	OJ991117_08.0421.C3
Gene No.	111335	Strand	-
Start	232	End	5039
Name	OJ991117_08.0421.C3.o9.tw	Method	TBLASTX:Wheat
Start	4298	End	4557
GI	none	Score	109
Exons	4298..4495, 4300..4497, 4510..4557		

Seq. No.	52744	Seq. ID	OJ991117_08.0421.C4
Gene No.	111336	Strand	+
Start	1	End	312
Name	OJ991117_08.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	312
GI	4680186	Score	334
Exons	1..50, 114..312		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52744	Seq. ID	OJ991117_08.0421.C4
Gene No.	111337	Strand	-
Start	1	End	245
Name	OJ991117_08.0421.C4.o1.gp	Method	AAT/GAP
Start	1	End	245
GI	uC-osf1cyp033a04b1	Score	459
Exons	1..245		
GI Descrip.	'6016845/dbj\|AP000570.1\|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	52745	Seq. ID	OJ991117_08.0421.C6
Gene No.	111338	Strand	+
Start	1	End	733
Name	OJ991117_08.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	733
GI	5852180	Score	214
Exons	1..368, 690..733		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	52745	Seq. ID	OJ991117_08.0421.C6
Gene No.	111339	Strand	-
Start	1405	End	1876
Name	OJ991117_08.0421.C6.o2.gs	Method	GENSCAN
Start	1405	End	1876
GI	none	Score	.6
Exons	1405..1426, 1827..1876		

Seq. No.	52746	Seq. ID	OJ991117_08.0421.C7
Gene No.	111340	Strand	+
Start	104	End	264
Name	OJ991117_08.0421.C7.o1.gs	Method	GENSCAN
Start	104	End	264
GI	none	Score	.72
Exons	104..264		

Seq. No.	52746	Seq. ID	OJ991117_08.0421.C7
Gene No.	111341	Strand	-
Start	1	End	1022
Name	OJ991117_08.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	1022
GI	3121731	Score	70
Exons	1..55, 724..837, 937..1022		
GI Descrip.	ACONITATE HYDRATASE, CYTOPLASMIC (CITRATE HYDRO-LYASE) (ACONITASE) gi\|2145473\|emb\|CAA65735\| (X97012) aconitate hydratase [Solanum tuberosum]		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111342	Strand	+
Start	170	End	2893
Name	OJ991117_08.0421.C8.o1.gs	Method	GENSCAN
Start	170	End	2893
GI	none	Score	.48
Exons	170..293, 1673..1802, 2182..2203, 2258..2394, 2493..2893		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111343	Strand	+
Start	3287	End	6258
Name	OJ991117_08.0421.C8.o2.gs	Method	GENSCAN
Start	3287	End	6258
GI	none	Score	.65
Exons	3287..3477, 3503..3558, 4018..4242, 4295..4434, 6067..6258		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111343	Strand	+
Start	3287	End	6258
Name	OJ991117_08.0421.C8.o2.gp	Method	AAT/GAP
Start	4133	End	5501
GI	none	Score	666
Exons	4133..4450, 5447..5501		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111344	Strand	+
Start	7689	End	8232
Name	OJ991117_08.0421.C8.o3.gs	Method	GENSCAN
Start	7689	End	8232
GI	none	Score	.68
Exons	7689..7995, 8174..8232		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111345	Strand	+
Start	14904	End	17004
Name	OJ991117_08.0421.C8.o5.gs	Method	GENSCAN
Start	14904	End	17004
GI	none	Score	.4
Exons	14904..14965, 15653..15960, 16554..16659, 16701..17004		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111346	Strand	+
Start	21105	End	26448
Name	OJ991117_08.0421.C8.o7.gs	Method	GENSCAN
Start	21105	End	25962
GI	none	Score	.77

Exons	21105..21117, 21565..21654, 21727..21957, 22214..22330, 22615..22731, 23534..23689, 23997..24085, 24429..24461, 24708..24982, 25279..25498, 25629..25684, 25800..25962		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111346	Strand	+
Start	21105	End	26448
Name	OJ991117_08.0421.C8.o3.np	Method	AAT/NAP
Start	23975	End	24115
GI	4584355	Score	59
Exons	23975..24115		
GI Descrip.	(AC006420) Ac-like transposase [Arabidopsis thaliana]		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111346	Strand	+
Start	21105	End	26448
Name	OJ991117_08.0421.C8.o4.np	Method	AAT/NAP
Start	24594	End	26448
GI	6705984	Score	1125
Exons	24594..26448		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111347	Strand	-
Start	3469	End	3970
Name	OJ991117_08.0421.C8.o1.gp	Method	AAT/GAP
Start	3469	End	3970
GI	none	Score	947
Exons	3469..3970		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111348	Strand	-
Start	6222	End	11712
Name	OJ991117_08.0421.C8.o1.np	Method	AAT/NAP
Start	6222	End	11712
GI	7486085	Score	518
Exons	6222..6281, 9675..9826, 9922..10097, 10177..10331, 11453..11712		
GI Descrip.	hypothetical protein F24J7.161 - Arabidopsis thaliana gi\|4582488\|emb\|CAB40377.1\| (AL021768) putative protein [Arabidopsis thaliana] gi\|7268756\|emb\|CAB78962.1\| (AL161551) putative protein [Arabidopsis thaliana]		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111348	Strand	-
Start	6222	End	11712
Name	OJ991117_08.0421.C8.o4.gs	Method	GENSCAN
Start	8593	End	11558
GI	none	Score	.57
Exons	8593..8669, 8719..8916, 9295..9495, 9675..9826, 9922..10097, 10177..10311, 11243..11324, 11494..11558		
Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111349	Strand	-
Start	16941	End	17245
Name	OJ991117_08.0421.C8.o3.gp	Method	AAT/GAP
Start	16941	End	17245
GI	61605_3.R1084	Score	435

Exons	16941..17245		
GI Descrip.	'1402920/emb\|CAA66965\| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111350	Strand	-
Start	17607	End	21385
Name	OJ991117_08.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	8522	End	8871
GI	none	Score	138
Exons	8522..8683, 8526..8609, 8531..8704, 8531..8698, 8531..8698, 8543..8704, 8675..8773, 8675..8767, 8705..8758, 8712..8846, 8718..8867, 8719..8871		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111350	Strand	-
Start	17607	End	21385
Name	OJ991117_08.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	8888	End	10271
GI	none	Score	85
Exons	8888..9037, 8896..9033, 8901..9059, 9183..9242, 9239..9367, 9244..9294, 9245..9367, 9353..9586, 9368..9628, 9384..9590, 9385..9591, 9670..9825, 9675..9833, 9677..9841, 9913..10104, 9914..10108, 9921..10109, 9921..10109, 9922..10113, 10159..10269, 10176..10271, 10177..10269		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111350	Strand	-
Start	17607	End	21385
Name	OJ991117_08.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	9775	End	10109
GI	none	Score	53
Exons	9775..9825, 9776..9826, 9924..10109, 9925..10098		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111350	Strand	-
Start	17607	End	21385
Name	OJ991117_08.0421.C8.o2.np	Method	AAT/NAP
Start	17607	End	21385
GI	6063554	Score	712
Exons	17607..17792, 18723..18961, 19080..19359, 21353..21385		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111350	Strand	-
Start	17607	End	21385
Name	OJ991117_08.0421.C8.o6.gs	Method	GENSCAN
Start	18311	End	20530
GI	none	Score	.69
Exons	18311..18427, 18760..18969, 19067..19165, 19213..19318, 20097..20135, 20487..20530		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111351	Strand	
Start	24965	End	25500

Name	OJ991117_08.0421.C8.o3.tm	Method	TBLASTX:Maize
Start	24965	End	25225
GI	none	Score	182
Exons	24965..25156, 25000..25119, 25007..25153, 25142..25225		

Seq. No.	52747	Seq. ID	OJ991117_08.0421.C8
Gene No.	111351	Strand	
Start	24965	End	25500
Name	OJ991117_08.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	24994	End	25500
GI	none	Score	132
Exons	24994..25119, 24995..25159, 25250..25498, 25264..25500		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111352	Strand	+
Start	10133	End	12602
Name	OJ991117_08.0421.C9.o1.np	Method	AAT/NAP
Start	10133	End	12602
GI	3309243	Score	45
Exons	10133..10246, 12559..12602		
GI Descrip.	(AF073507) aconitase-iron regulated protein 1 [Citrus limon]		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o2.np	Method	AAT/NAP
Start	12506	End	14672
GI	4325357	Score	438
Exons	12506..13232, 14027..14672		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o3.gs	Method	GENSCAN
Start	12570	End	16982
GI	none	Score	.5
Exons	12570..12797, 12836..13012, 13065..13449, 13825..14796, 15050..15216, 16231..16722, 16815..16982		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	12735	End	13145
GI	none	Score	73
Exons	12735..12839, 12867..13145		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	12735	End	13163
GI	none	Score	96
Exons	12735..12842, 12867..13082, 13056..13163		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	12882	End	13190
GI	none	Score	193
Exons	12882..13190		

Seq. No.	52748	Seq. ID	OJ991117_08.0421.C9
Gene No.	111353	Strand	+
Start	12570	End	16982
Name	OJ991117_08.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	13962	End	14333
GI	none	Score	112
Exons	13962..14105, 14148..14333, 14219..14332		

Seq. No.	52749	Seq. ID	OJ991117_08.0421.C10
Gene No.	111354	Strand	+
Start	1314	End	2268
Name	OJ991117_08.0421.C10.o1.np	Method	AAT/NAP
Start	1314	End	2268
GI	7228450	Score	180
Exons	1314..1432, 1718..1799, 1924..2066, 2152..2268		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	52749	Seq. ID	OJ991117_08.0421.C10
Gene No.	111355	Strand	-
Start	440	End	571
Name	OJ991117_08.0421.C10.o1.gs	Method	GENSCAN
Start	440	End	571
GI	none	Score	.72
Exons	440..571		

Seq. No.	52750	Seq. ID	OJ991117_08.0421.C11
Gene No.	111356	Strand	+
Start	1	End	2918
Name	OJ991117_08.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	1189
GI	4680186	Score	354
Exons	1..149, 988..1189		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52750	Seq. ID	OJ991117_08.0421.C11
Gene No.	111356	Strand	+
Start	1	End	2918
Name	OJ991117_08.0421.C11.o2.np	Method	AAT/NAP
Start	1	End	2918
GI	4680183	Score	132
Exons	1..76, 2181..2251, 2857..2918		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	4076

GI	4680203	Score	3233
Exons	1..276, 766..2440, 2594..2824, 3101..4076		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.gp	Method	AAT/GAP
Start	770	End	4583
GI	342_1.R1084	Score	5794
Exons	770..4583		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o3.tw	Method	TBLASTX:Wheat
Start	1072	End	1473
GI	none	Score	95
Exons	1072..1224, 1142..1210, 1207..1458, 1215..1457, 1216..1473, 1218..1460, 1226..1468		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.ts	Method	TBLASTX:Soybean
Start	1389	End	1818
GI	none	Score	103
Exons	1389..1448, 1390..1464, 1465..1527, 1522..1818, 1554..1805		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o2.tc	Method	TBLASTX:Cress
Start	1551	End	1899
GI	none	Score	295
Exons	1551..1625, 1558..1899, 1714..1896		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o2.tw	Method	TBLASTX:Wheat
Start	1687	End	2156
GI	none	Score	73
Exons	1687..1743, 1695..1739, 1740..1841, 1741..1845, 1849..1947, 1852..1947, 1854..1955, 1857..1949, 1927..2154, 1947..2156, 1950..2156		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	1732	End	2190
GI	none	Score	227
Exons	1732..1986, 1744..1986, 1996..2190		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o2.ts	Method	TBLASTX:Soybean
Start	2020	End	2262
GI	none	Score	219
Exons	2020..2262		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o4.tw	Method	TBLASTX:Wheat
Start	2295	End	2701
GI	none	Score	85
Exons	2295..2345, 2296..2358, 2296..2352, 2344..2397, 2364..2396, 2389..2541, 2389..2547, 2390..2587, 2402..2587, 2620..2700, 2621..2701		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	2702	End	4022
GI	none	Score	900
Exons	2702..3145, 2707..3594, 2708..3595, 3192..3626, 3599..3664, 3618..3659, 3619..3663, 3666..3761, 3670..3729, 3708..3848, 3739..3822, 3739..3855, 3864..3941, 3930..4022, 3934..4005		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	2750	End	3064
GI	none	Score	310
Exons	2750..3064, 2761..3036		

Seq. No.	52751	Seq. ID	OJ991007_03.0421.C1
Gene No.	111357	Strand	+
Start	1	End	4583
Name	OJ991007_03.0421.C1.o1.tc	Method	TBLASTX:Cress
Start	2991	End	3442
GI	none	Score	107
Exons	2991..3137, 2995..3138, 2995..3438, 2999..3442, 3293..3442		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111358	Strand	+
Start	170	End	6409
Name	OJ991007_03.0421.C2.o1.gs	Method	GENSCAN
Start	170	End	6409
GI	none	Score	.52
Exons	170..180, 938..1007, 1710..1908, 2002..3128, 3231..3363, 3610..4348, 4437..4610, 4700..4810, 4911..4983, 5079..5177, 5277..5432, 6027..6135, 6213..6284, 6336..6409		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111358	Strand	+
Start	170	End	6409

Name	OJ991007_03.0421.C2.o1.np	Method	AAT/NAP
Start	1695	End	2852
GI	4680204	Score	706
Exons	1695..2852		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111358	Strand	+
Start	170	End	6409
Name	OJ991007_03.0421.C2.o2.np	Method	AAT/NAP
Start	1695	End	5447
GI	4680204	Score	1095
Exons	1695..3128, 3222..4348, 4437..4610, 4700..4835, 5239..5447		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111359	Strand	+
Start	6715	End	24306
Name	OJ991007_03.0421.C2.o10.np	Method	AAT/NAP
Start	6715	End	24306
GI	4680183	Score	153
Exons	6715..6740, 23545..23635, 24241..24306		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111359	Strand	+
Start	6715	End	24306
Name	OJ991007_03.0421.C2.o3.gs	Method	GENSCAN
Start	11435	End	13431
GI	none	Score	.5
Exons	11435..11613, 11980..12085, 13069..13431		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111359	Strand	+
Start	6715	End	24306
Name	OJ991007_03.0421.C2.o4.np	Method	AAT/NAP
Start	11459	End	13320
GI	5103836	Score	418
Exons	11459..11613, 11980..12085, 13069..13320		
GI Descrip.	(AC007591) Is a member of the PF\|00903 gyloxalase family. ESTs gb\|T44721, gb\|T21844 and gb\|AA395404 come from this gene. [Arabidopsis thaliana]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111359	Strand	+
Start	6715	End	24306
Name	OJ991007_03.0421.C2.o7.np	Method	AAT/NAP
Start	17275	End	18583
GI	5777617	Score	90
Exons	17275..17304, 18473..18583		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111360	Strand	-
Start	5490	End	5676
Name	OJ991007_03.0421.C2.o1.gp	Method	AAT/GAP
Start	5490	End	5676

GI	LIB3477-003-P1-K1-E9	Score	90
Exons	5490..5552, 5619..5676		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111361	Strand	-
Start	7942	End	9159
Name	OJ991007_03.0421.C2.o2.gs	Method	GENSCAN
Start	7942	End	9159
GI	none	Score	.76
Exons	7942..8064, 8337..8455, 9069..9159		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	2337	End	2738
GI	none	Score	217
Exons	2337..2570, 2337..2531, 2438..2578, 2568..2738, 2621..2737		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o4.tm	Method	TBLASTX:Maize
Start	11426	End	13316
GI	none	Score	196
Exons	11426..11614, 11470..11610, 11980..12015, 11981..12049, 12038..12082, 12050..12082, 13057..13290, 13068..13316		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	11474	End	13293
GI	none	Score	148
Exons	11474..11626, 11497..11610, 11981..12082, 13057..13293, 13068..13292		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	11506	End	13244
GI	none	Score	108
Exons	11506..11613, 11507..11614, 11981..12097, 13057..13236, 13068..13244		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o5.np	Method	AAT/NAP
Start	15005	End	20322
GI	6069646	Score	928
Exons	15005..15989, 16275..17077, 20300..20322		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315)		

[Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o6.tm	Method	TBLASTX:Maize
Start	15029	End	15599
GI	none	Score	64
Exons	15029..15232, 15313..15381, 15384..15476, 15384..15476, 15507..15599		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o5.tm	Method	TBLASTX:Maize
Start	15729	End	15987
GI	none	Score	131
Exons	15729..15809, 15816..15986, 15817..15987		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o2.tw	Method	TBLASTX:Wheat
Start	15972	End	16415
GI	none	Score	66
Exons	15972..16112, 15972..16115, 16206..16415, 16339..16413		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	16047	End	16742
GI	none	Score	40
Exons	16047..16178, 16051..16092, 16179..16742, 16180..16509, 16587..16730		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o4.tw	Method	TBLASTX:Wheat
Start	16533	End	16814
GI	none	Score	69
Exons	16533..16814, 16555..16785		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	16743	End	17240
GI	none	Score	101
Exons	16743..16844, 16830..17075, 17103..17240		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-

Start	15005	End	21951
Name	OJ991007_03.0421.C2.o3.tw	Method	TBLASTX:Wheat
Start	16842	End	17177
GI	none	Score	58
Exons	16842..17048, 17043..17177, 17047..17157		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	17253	End	17687
GI	none	Score	133
Exons	17253..17687, 17356..17685		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o5.tw	Method	TBLASTX:Wheat
Start	17679	End	18023
GI	none	Score	60
Exons	17679..18023, 17764..18000		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o5.gs	Method	GENSCAN
Start	18734	End	19837
GI	none	Score	.53
Exons	18734..19178, 19528..19648, 19702..19837		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o8.np	Method	AAT/NAP
Start	19012	End	21951
GI	4680204	Score	54
Exons	19012..19172, 19591..19767, 21924..21951		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52752	Seq. ID	OJ991007_03.0421.C2
Gene No.	111362	Strand	-
Start	15005	End	21951
Name	OJ991007_03.0421.C2.o9.np	Method	AAT/NAP
Start	20098	End	20203
GI	5777617	Score	79
Exons	20098..20203		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111363	Strand	+
Start	393	End	1413
Name	OJ991007_03.0421.C3.o1.gs	Method	GENSCAN
Start	393	End	1413
GI	none	Score	.9
Exons	393..409, 1257..1413		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3

Gene No.	111364	Strand	+
Start	2305	End	15782
Name	OJ991007_03.0421.C3.o2.gs	Method	GENSCAN
Start	2305	End	15782
GI	none	Score	.61
Exons	2305..2624, 3577..3647, 4868..4973, 5117..5306, 7123..7241, 8633..8825, 10176..10366, 11218..11393, 11666..11858, 11941..12079, 12154..12319, 12876..13042, 13171..13344, 13815..13910, 14000..14116, 14412..14734, 14898..15165, 15282..15410, 15723..15782		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111364	Strand	+
Start	2305	End	15782
Name	OJ991007_03.0421.C3.o1.np	Method	AAT/NAP
Start	11234	End	15460
GI	5103843	Score	1967
Exons	11234..11352, 11470..11552, 11666..11858, 11941..12079, 12154..12319, 12876..13042, 13171..13344, 13815..13910, 14000..14104, 14391..14734, 14898..15175, 15287..15460		
GI Descrip.	(AC007591) Is a member of the PF\|00955 Anion exchanger family. [Arabidopsis thaliana]		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111365	Strand	+
Start	19849	End	21685
Name	OJ991007_03.0421.C3.o1.gp	Method	AAT/GAP
Start	19810	End	21685
GI	63383_1.R1084	Score	1162
Exons	19810..19894, 19999..20052, 20721..20891, 20994..21125, 21458..21685		
GI Descrip.	'3320122 6.0e-14 (U46007) espin [Rattus norvegicus]'		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111365	Strand	+
Start	19849	End	21685
Name	OJ991007_03.0421.C3.o4.gs	Method	GENSCAN
Start	19849	End	21597
GI	none	Score	.69
Exons	19849..19894, 19999..20052, 20673..20891, 20994..21125, 21458..21597		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111365	Strand	+
Start	19849	End	21685
Name	OJ991007_03.0421.C3.o2.np	Method	AAT/NAP
Start	19949	End	21597
GI	6175185	Score	143
Exons	19949..20052, 20721..20891, 20994..21125, 21458..21597		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	11245	End	12079
GI	none	Score	115

Exons	11245..11352, 11465..11563, 11467..11550, 11662..11859, 11664..11855, 11924..12076, 11941..12078, 11942..12079		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	11667	End	12183
GI	none	Score	243
Exons	11667..11858, 11683..11859, 11698..11868, 11941..12078, 11942..12079, 12148..12183, 12153..12182		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o2.ts	Method	TBLASTX:Soybean
Start	11788	End	12312
GI	none	Score	89
Exons	11788..11859, 11799..11858, 11941..12078, 11942..12079, 12148..12312, 12153..12311		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o3.ts	Method	TBLASTX:Soybean
Start	12862	End	13287
GI	none	Score	252
Exons	12862..13068, 12872..13069, 12875..13069, 13058..13096, 13168..13287, 13182..13286		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o4.tc	Method	TBLASTX:Cress
Start	12872	End	13045
GI	none	Score	82
Exons	12872..12931, 12873..13043, 12874..13005, 12875..13045, 12959..13045		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	12961	End	14522
GI	none	Score	125
Exons	12961..13044, 12962..13042, 12964..13044, 13168..13347, 13169..13345, 13170..13361, 13814..13909, 13815..13913, 13815..13910, 13977..14102, 13979..14116, 14002..14103, 14009..14116, 14411..14521, 14412..14522		
Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o3.tc	Method	TBLASTX:Cress
Start	13146	End	13910
GI	none	Score	72
Exons	13146..13322, 13147..13344, 13167..13361, 13818..13910,		

13826..13903

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	13288	End	15404
GI	none	Score	88
Exons	13288..13344, 13808..13903, 13809..13904, 14005..14121, 14006..14137, 14400..14480, 14411..14479, 14457..14735, 14489..14704, 14490..14732, 14892..15083, 14895..15095, 14896..15153, 14980..15144, 15324..15404		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o2.tc	Method	TBLASTX:Cress
Start	14462	End	15021
GI	none	Score	341
Exons	14462..14716, 14469..14735, 14496..14735, 14528..14758, 14889..15020, 14896..15021		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	14523	End	15129
GI	none	Score	343
Exons	14523..14735, 14525..14713, 14527..14748, 14868..15098, 14895..15095, 15094..15129		

Seq. No.	52753	Seq. ID	OJ991007_03.0421.C3
Gene No.	111366	Strand	-
Start	16830	End	18254
Name	OJ991007_03.0421.C3.o3.gs	Method	GENSCAN
Start	16830	End	18254
GI	none	Score	.77
Exons	16830..18254		

Seq. No.	52754	Seq. ID	OJ991007_03.0421.C4
Gene No.	111367	Strand	-
Start	1017	End	2101
Name	OJ991007_03.0421.C4.o1.gs	Method	GENSCAN
Start	1017	End	2072
GI	none	Score	.88
Exons	1017..1166, 1488..1595, 1697..2072		

Seq. No.	52754	Seq. ID	OJ991007_03.0421.C4
Gene No.	111367	Strand	-
Start	1017	End	2101
Name	OJ991007_03.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	1853	End	2101
GI	none	Score	89
Exons	1853..2101, 1857..2093		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111368	Strand	+

Start	7597	End	10944
Name	OJ991007_03.0421.C5.o2.gs	Method	GENSCAN
Start	7597	End	10944
GI	none	Score	.82
Exons	7597..7671, 7697..7898, 8065..8201, 8564..8653, 8838..8903, 9643..9795, 10125..10226, 10344..10511, 10592..10671, 10902..10944		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111368	Strand	+
Start	7597	End	10944
Name	OJ991007_03.0421.C5.o2.np	Method	AAT/NAP
Start	8596	End	10669
GI	6175185	Score	180
Exons	8596..8653, 8775..8903, 9643..9858, 10135..10226, 10344..10669		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o3.np	Method	AAT/NAP
Start	13614	End	34176
GI	7510074	Score	276
Exons	13614..13666, 13833..14337, 19445..20164, 20236..20323, 26813..26986, 32244..32459, 32551..32807, 33396..33548, 33668..33723, 33891..33939, 34021..34176		
GI Descrip.	hypothetical protein Y50E8A.g - Caenorhabditis elegans		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o1.gp	Method	AAT/GAP
Start	13985	End	14328
GI	none	Score	592
Exons	13985..14328		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o2.gp	Method	AAT/GAP
Start	15642	End	15911
GI	LIB3434-035-P1-K1-A7	Score	444
Exons	15642..15911		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o4.gs	Method	GENSCAN
Start	15998	End	16734
GI	none	Score	.94
Exons	15998..16060, 16507..16734		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245

Name	OJ991007_03.0421.C5.o3.gp	Method	AAT/GAP
Start	19548	End	23556
GI	8681_1.R1084	Score	2276
Exons	19548..19670, 20216..20326, 20510..20561, 21372..21416, 21550..21654, 22030..22180, 22270..22352, 22871..22964, 23040..23556		
GI Descrip.	'5903036/gb\|AAD55595.1\|AC008016_5 1.0e-36 (AC008016) F6D8.5 [Arabidopsis thaliana]'		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o4.np	Method	AAT/NAP
Start	20470	End	22965
GI	5903036	Score	517
Exons	20470..20612, 21180..21216, 21347..21416, 21550..21653, 22038..22173, 22871..22965		
GI Descrip.	(AC008016) F6D8.5 [Arabidopsis thaliana]		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o5.np	Method	AAT/NAP
Start	30274	End	34210
GI	2760836	Score	1147
Exons	30274..30349, 32187..32510, 32538..32772, 33313..34210		
GI Descrip.	(AC003105) putative second messenger-dependent protein kinase [Arabidopsis thaliana]		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o8.gs	Method	GENSCAN
Start	32192	End	34213
GI	none	Score	.94
Exons	32192..32772, 33313..34213		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111369	Strand	+
Start	13614	End	34245
Name	OJ991007_03.0421.C5.o6.gp	Method	AAT/GAP
Start	33793	End	34245
GI	LIB3432-008-P1-K1-A6	Score	861
Exons	33793..34245		
GI Descrip.	'2760836/gb\|AAB95304.1\| 2.0e-33 (AC003105) putative Ser/Thr protein kinase [Arabidopsis thaliana]'		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111370	Strand	-
Start	145	End	5353
Name	OJ991007_03.0421.C5.o1.gs	Method	GENSCAN
Start	145	End	5257
GI	none	Score	.56
Exons	145..363, 455..554, 642..915, 1006..1149, 1939..2102, 2277..2540, 3214..3498, 3547..3675, 3841..5257		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5

Gene No.	111370	Strand	-
Start	145	End	5353
Name	OJ991007_03.0421.C5.o1.np	Method	AAT/NAP
Start	1129	End	5353
GI	7106515	Score	3106
Exons	1129..2019, 2047..2841, 2923..3259, 3530..5353		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111371	Strand	-
Start	11921	End	14491
Name	OJ991007_03.0421.C5.o3.gs	Method	GENSCAN
Start	11921	End	14491
GI	none	Score	.62
Exons	11921..12103, 12390..12800, 13712..14491		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111372	Strand	-
Start	19439	End	23237
Name	OJ991007_03.0421.C5.o5.gs	Method	GENSCAN
Start	19439	End	23237
GI	none	Score	.75
Exons	19439..20146, 20182..20748, 23094..23237		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111373	Strand	-
Start	24545	End	27361
Name	OJ991007_03.0421.C5.o4.gp	Method	AAT/GAP
Start	24466	End	25500
GI	uC-osflcyp142g03b1	Score	625
Exons	24466..24610, 24714..24792, 25284..25350, 25446..25500		
GI Descrip.	'3025188/sp\|P73056\|YI46_SYNY3 8.0e-17 HYPOTHETICAL 11.9 KD PROTEIN SLR1846 >gi_1652154_dbj_BAA17078_ (D90903) hypothetical protein [Synechocystis sp.]'		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111373	Strand	-
Start	24545	End	27361
Name	OJ991007_03.0421.C5.o6.gs	Method	GENSCAN
Start	24545	End	27361
GI	none	Score	.67
Exons	24545..24610, 24678..24792, 25284..25350, 25446..25545, 25685..25845, 27265..27361		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111373	Strand	-
Start	24545	End	27361
Name	OJ991007_03.0421.C5.o5.gp	Method	AAT/GAP
Start	25498	End	26975
GI	2311416	Score	607
Exons	25498..25545, 25684..25861, 26651..26726, 26873..26975		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111374	Strand	-
Start	35191	End	36694

Name	OJ991007_03.0421.C5.o9.gs	Method	GENSCAN
Start	35191	End	36694
GI	none	Score	.77
Exons	35191..35277, 36328..36448, 36495..36694		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	146	End	858
GI	none	Score	99
Exons	146..343, 147..344, 148..345, 150..362, 160..390, 454..561, 643..858, 700..858		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o4.ts	Method	TBLASTX:Soybean
Start	1308	End	1490
GI	none	Score	119
Exons	1308..1490, 1309..1488		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	2029	End	2419
GI	none	Score	328
Exons	2029..2418, 2030..2419		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o9.tm	Method	TBLASTX:Maize
Start	2562	End	3016
GI	none	Score	79
Exons	2562..2777, 2566..2631, 2808..2909, 2963..3016		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o5.tm	Method	TBLASTX:Maize
Start	4077	End	4393
GI	none	Score	64
Exons	4077..4241, 4082..4252, 4247..4393, 4257..4388		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o2.tw	Method	TBLASTX:Wheat
Start	4178	End	4570
GI	none	Score	150
Exons	4178..4246, 4274..4570, 4275..4490, 4283..4549		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409

Name	OJ991007_03.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	4394	End	5213
GI	none	Score	164
Exons	4394..4648, 4395..4646, 4691..5155, 4709..4783, 4839..5144, 5159..5212, 5160..5213		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o10.tm	Method	TBLASTX:Maize
Start	5276	End	5515
GI	none	Score	60
Exons	5276..5515, 5358..5417, 5466..5510		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o7.tm	Method	TBLASTX:Maize
Start	13991	End	14244
GI	none	Score	141
Exons	13991..14092, 13993..14025, 14114..14239, 14119..14244		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	20389	End	34087
GI	none	Score	106
Exons	20389..20514, 32693..32791, 33311..33478, 33313..33465, 33721..33915, 33722..33916, 33949..34086, 33965..34087		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o6.tm	Method	TBLASTX:Maize
Start	20514	End	23251
GI	none	Score	85
Exons	20514..20585, 20520..20612, 20524..20628, 21172..21219, 21178..21219, 21340..21417, 21341..21415, 21547..21654, 21552..21653, 21565..21654, 21605..21661, 22013..22180, 22029..22181, 22029..22181, 22261..22350, 22263..22355, 22267..22365, 22847..22960, 22869..22964, 22870..22962, 23017..23109, 23037..23123, 23042..23113, 23056..23145, 23211..23249, 23215..23247, 23219..23251		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o2.tc	Method	TBLASTX:Cress
Start	20515	End	23109
GI	none	Score	148
Exons	20515..20628, 20520..20627, 21174..21221, 21178..21219, 21340..21414, 21341..21415, 21516..21653, 21549..21629, 21611..21658, 22021..22131, 22029..22181, 22029..22175, 22031..22177, 22869..22961, 22870..22962, 23023..23109		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5

Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o3.ts	Method	TBLASTX:Soybean
Start	20515	End	23082
GI	none	Score	144
Exons	20515..20628, 20520..20621, 21174..21221, 21178..21219, 21340..21414, 21341..21415, 21534..21629, 21552..21653, 21605..21661, 22013..22171, 22029..22181, 22281..22367, 22843..22962, 22843..22968, 23040..23081, 23041..23082		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o3.tw	Method	TBLASTX:Wheat
Start	24337	End	24794
GI	none	Score	61
Exons	24337..24357, 24462..24494, 24545..24613, 24561..24611, 24697..24792, 24701..24790, 24702..24794		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o11.tm	Method	TBLASTX:Maize
Start	24531	End	25473
GI	none	Score	89
Exons	24531..24611, 24532..24612, 24545..24613, 24702..24791, 24702..24794, 24707..24796, 24718..24798, 24718..24798, 25268..25348, 25283..25348, 25284..25349, 25296..25349, 25444..25473		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o8.tm	Method	TBLASTX:Maize
Start	25474	End	26732
GI	none	Score	75
Exons	25474..25557, 25474..25566, 25683..25859, 25685..25861, 25685..25861, 25708..25875, 25783..25869, 26652..26732, 26663..26725		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	32333	End	34087
GI	none	Score	125
Exons	32333..32488, 32534..32791, 32635..32775, 33310..33459, 33311..33502, 33721..33915, 33722..33916, 33965..34087		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	32333	End	32692
GI	none	Score	127
Exons	32333..32488, 32534..32692		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o4.tm	Method	TBLASTX:Maize
Start	32348	End	34087
GI	none	Score	90
Exons	32348..32488, 32534..32791, 32542..32775, 33310..33465, 33311..33478, 33722..33916, 33724..33915, 33964..34077, 33965..34087, 34004..34087		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	33752	End	34092
GI	none	Score	218
Exons	33752..33916, 33754..33888, 33968..34087, 33970..34092, 33970..34077		

Seq. No.	52755	Seq. ID	OJ991007_03.0421.C5
Gene No.	111375	Strand	-
Start	37095	End	37409
Name	OJ991007_03.0421.C5.o10.gs	Method	GENSCAN
Start	37095	End	37409
GI	none	Score	.72
Exons	37095..37409		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	514
GI	7511589	Score	43
Exons	1..57, 162..274, 399..514		
GI Descrip.	probable transcription factor pos-1 - Caenorhabditis elegans gi\|1086811\|gb\|AAB37036.1\| (U41109) Contains similarity to Pfam domain: PF00642 (zf-CCCH), Score=74.1, E-value=9.3e-19, N=2 [Caenorhabditis elegans] gi\|3767590\|dbj\|BAA33854.1\| (AB006208) cytoplasmic zinc-finger protein [Caenorhabditis elegans]		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o1.gs	Method	GENSCAN
Start	89	End	4656
GI	none	Score	.77
Exons	89..501, 645..963, 1237..1256, 1372..1595, 3725..3782, 3856..3987, 4213..4411, 4629..4656		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o2.np	Method	AAT/NAP
Start	2404	End	4514
GI	7269410	Score	354
Exons	2404..2550, 3082..3192, 3277..3330, 3725..4056, 4213..4514		
GI Descrip.	(AL161563) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	3133	End	4517
GI	none	Score	84
Exons	3133..3192, 3721..3780, 3722..3787, 3854..3886, 3855..3887, 3936..4016, 3950..4006, 4209..4358, 4295..4342, 4392..4517, 4409..4504		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	4202	End	4516
GI	none	Score	151
Exons	4202..4339, 4203..4364, 4389..4514, 4418..4516		

Seq. No.	52756	Seq. ID	OJ991007_03.0421.C6
Gene No.	111376	Strand	+
Start	1	End	4656
Name	OJ991007_03.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	4209	End	4514
GI	none	Score	290
Exons	4209..4514, 4424..4513		

Seq. No.	52757	Seq. ID	OJ991007_03.0421.C7
Gene No.	111377	Strand	+
Start	4	End	63
Name	OJ991007_03.0421.C7.o1.gs	Method	GENSCAN
Start	4	End	63
GI	none	Score	.57
Exons	4..63		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111378	Strand	+
Start	1	End	3539
Name	OJ991007_03.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	3536
GI	7432652	Score	211
Exons	1..31, 576..733, 1737..1826, 1927..1997, 2082..2163, 2275..2352, 2599..2688, 2778..2891, 3083..3126, 3494..3536		
GI Descrip.	nitrate reductase - Chlorella vulgaris gi\|1113861\|gb\|AAC49459.1\| (U39930) nitrate reductase [Chlorella vulgaris] gi\|1113863\|gb\|AAC49460.1\| (U39931) nitrate reductase [Chlorella vulgaris]		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111378	Strand	+
Start	1	End	3539
Name	OJ991007_03.0421.C8.o1.gs	Method	GENSCAN
Start	576	End	3539
GI	none	Score	.91
Exons	576..651, 1596..1646, 1748..1880, 1927..1997, 2082..2133, 2275..2352, 2599..2688, 2778..2891, 3483..3539		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111379	Strand	+
Start	11969	End	12583
Name	OJ991007_03.0421.C8.o2.np	Method	AAT/NAP
Start	11969	End	12583
GI	2244709	Score	328
Exons	11969..12048, 12149..12285, 12329..12583		
GI Descrip.	(AB005295) HY5 [Arabidopsis thaliana] gi\|2251085\|dbj\|BAA21327\| (AB005456) HY5 [Arabidopsis thaliana]		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111379	Strand	+
Start	11969	End	12583
Name	OJ991007_03.0421.C8.o2.gp	Method	AAT/GAP
Start	12469	End	12547
GI	uC-osflcyp082g11a1	Score	147
Exons	12469..12547		
GI Descrip.	'6041757/gb\|AC011806.1\|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111380	Strand	-
Start	5284	End	5698
Name	OJ991007_03.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	530	End	2667
GI	none	Score	108
Exons	530..652, 574..651, 1040..1135, 1041..1136, 1593..1658, 1594..1647, 1736..1804, 1743..1805, 1749..1805, 1918..1998, 1925..1987, 1926..1997, 2039..2131, 2082..2132, 2083..2136, 2274..2351, 2275..2355, 2599..2667		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111380	Strand	-
Start	5284	End	5698
Name	OJ991007_03.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	574	End	3578
GI	none	Score	137
Exons	574..651, 575..652, 592..660, 1061..1129, 1061..1135, 1068..1136, 1593..1658, 1594..1647, 1710..1802, 1726..1803, 1734..1805, 1748..1804, 1918..1998, 1924..2007, 1925..2008, 2079..2129, 2082..2132, 2083..2136, 2274..2360, 2275..2355, 2597..2689, 2597..2689, 2598..2699, 2599..2700, 2777..2893, 2778..2894, 3078..3149, 3079..3150, 3082..3153, 3083..3154, 3480..3578, 3489..3539		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111380	Strand	-
Start	5284	End	5698
Name	OJ991007_03.0421.C8.o1.gp	Method	AAT/GAP
Start	5284	End	5698
GI	16495_1.R1084	Score	734
Exons	5284..5698		
GI Descrip.	'6015437/dbj\|AB008112.1\|AB008112 3.0e-11 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8

Gene No.	111381	Strand	
Start	12001	End	12554
Name	OJ991007_03.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	12001	End	12550
GI	none	Score	65
Exons	12001..12066, 12156..12203, 12161..12202, 12340..12540, 12341..12550		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111381	Strand	
Start	12001	End	12554
Name	OJ991007_03.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	12341	End	12550
GI	none	Score	323
Exons	12341..12550, 12343..12546		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111381	Strand	
Start	12001	End	12554
Name	OJ991007_03.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	12341	End	12550
GI	none	Score	257
Exons	12341..12550, 12343..12540		

Seq. No.	52758	Seq. ID	OJ991007_03.0421.C8
Gene No.	111381	Strand	
Start	12001	End	12554
Name	OJ991007_03.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	12383	End	12554
GI	none	Score	260
Exons	12383..12550, 12406..12546, 12528..12554		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111382	Strand	+
Start	16622	End	16914
Name	OJ991007_03.0421.C9.o4.np	Method	AAT/NAP
Start	16622	End	16914
GI	7340881	Score	156
Exons	16622..16708, 16854..16914		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o6.tm	Method	TBLASTX:Maize
Start	707	End	1169
GI	none	Score	89
Exons	707..847, 708..875, 718..900, 960..1112, 975..1097, 998..1108, 1003..1110, 1116..1169		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.np	Method	AAT/NAP
Start	722	End	7373
GI	2316016	Score	4295
Exons	722..828, 1004..1243, 1376..1439, 1548..1859, 2031..2239,		

2321..2614, 2695..2859, 2942..3567, 3651..3737, 3857..5891, 7338..7373

GI Descrip. (U92650) MRP-like ABC transporter [Arabidopsis thaliana]

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.gs	Method	GENSCAN
Start	725	End	16586
GI	none	Score	.56
Exons	725..828, 1004..1439, 1548..1817, 2031..2239, 2321..2421, 2487..2614, 2695..2859, 2942..2960, 3074..3141, 3286..3567, 3651..3737, 3857..6284, 13198..13422, 13583..13743, 15013..15087, 15099..15275, 16461..16586		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	734	End	5650
GI	none	Score	197
Exons	734..829, 1002..1247, 1003..1245, 1380..1445, 1529..1642, 1542..1859, 1549..1854, 1692..1823, 1706..1867, 2022..2237, 2047..2232, 2301..2345, 2378..2617, 2387..2446, 2388..2615, 2492..2617, 2695..2850, 2695..2859, 2936..3076, 2942..3070, 2943..3086, 3073..3321, 3074..3154, 3078..3239, 3133..3321, 3340..3567, 3445..3567, 3530..3568, 3643..3714, 3645..3737, 3646..3744, 3851..4183, 3857..5365, 4002..5390, 4163..4300, 5369..5578, 5370..5531, 5606..5650		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o3.ts	Method	TBLASTX:Soybean
Start	1024	End	1859
GI	none	Score	176
Exons	1024..1245, 1044..1244, 1380..1445, 1400..1447, 1542..1859, 1549..1845		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	1044	End	1450
GI	none	Score	78
Exons	1044..1130, 1045..1116, 1131..1196, 1316..1447, 1340..1450		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	1170	End	2193
GI	none	Score	58
Exons	1170..1214, 1171..1203, 1185..1244, 1204..1245, 1204..1242, 1206..1244, 1377..1403, 1404..1442, 1407..1445, 1542..1859, 1547..1849, 1549..1854, 2019..2075, 2022..2075, 2073..2192, 2074..2193		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.gp	Method	AAT/GAP
Start	1178	End	2121
GI	uC-osflcyp174h07b1	Score	989
Exons	1178..1243, 1376..1439, 1548..1853, 2025..2121		
GI Descrip.	'2316016 4.0e-43 (U92650) MRP-like ABC transporter [Arabidopsis thaliana]'		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	2097	End	3375
GI	none	Score	86
Exons	2097..2237, 2098..2232, 2301..2387, 2343..2618, 2387..2620, 2674..2856, 2692..2856, 2705..2857, 2936..3073, 2939..3013, 2940..3104, 3073..3375, 3081..3212, 3151..3234		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	2346	End	3013
GI	none	Score	61
Exons	2346..2384, 2346..2387, 2347..2385, 2378..2641, 2380..2682, 2388..2615, 2389..2616, 2695..2850, 2695..2859, 2760..2858, 2936..3013, 2943..3011		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o8.tm	Method	TBLASTX:Maize
Start	3050	End	3231
GI	none	Score	68
Exons	3050..3229, 3073..3231, 3127..3231		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o5.tm	Method	TBLASTX:Maize
Start	3265	End	3568
GI	none	Score	53
Exons	3265..3327, 3265..3363, 3274..3567, 3380..3568, 3391..3567		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o2.gp	Method	AAT/GAP
Start	3314	End	3959
GI	2310454	Score	809
Exons	3314..3567, 3651..3737, 3857..3959		
GI Descrip.	2316016 4.0e-43 (U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o4.ts	Method	TBLASTX:Soybean
Start	3424	End	3893
GI	none	Score	66
Exons	3424..3567, 3460..3567, 3548..3571, 3645..3737, 3646..3744, 3840..3893, 3857..3892		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	3852	End	4108
GI	none	Score	92
Exons	3852..3965, 3856..3990, 3857..4108, 3857..4108		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	3895	End	4255
GI	none	Score	177
Exons	3895..4200, 3896..4153, 3896..4255, 4011..4250		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o7.tm	Method	TBLASTX:Maize
Start	4109	End	4526
GI	none	Score	122
Exons	4109..4192, 4148..4333, 4149..4334, 4403..4519, 4404..4526		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o5.ts	Method	TBLASTX:Soybean
Start	4589	End	4984
GI	none	Score	250
Exons	4589..4984		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	4665	End	5089
GI	none	Score	140
Exons	4665..4928, 4667..5089, 4968..5087		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o6.ts	Method	TBLASTX:Soybean
Start	5010	End	5191
GI	none	Score	93
Exons	5010..5186, 5012..5191, 5048..5188		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o2.np	Method	AAT/NAP
Start	6048	End	7480
GI	7489858	Score	76
Exons	6048..6153, 7393..7480		
GI Descrip.	ABC transport protein - slime mold (Dictyostelium discoideum) (fragment) gi\|1513298\|gb\|AAB06789.1\| (U66526) AbcA [Dictyostelium discoideum]		

Seq. No.	52759	Seq. ID	OJ991007_03.0421.C9
Gene No.	111383	Strand	-
Start	725	End	16586
Name	OJ991007_03.0421.C9.o3.np	Method	AAT/NAP
Start	13773	End	15185
GI	7340868	Score	198
Exons	13773..13791, 15011..15185		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	52760	Seq. ID	OJ990807_31.0419.C3
Gene No.	111384	Strand	+
Start	1	End	1172
Name	OJ990807_31.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1172
GI	7444149	Score	333
Exons	1..114, 191..280, 490..541, 1124..1172		
GI Descrip.	phosphomannomutase homolog F4I18.23 - Arabidopsis thaliana gi\|3386615\|gb\|AAC28545.1\| (AC004665) putative phosphomannomutase [Arabidopsis thaliana]		

Seq. No.	52760	Seq. ID	OJ990807_31.0419.C3
Gene No.	111384	Strand	+
Start	1	End	1172
Name	OJ990807_31.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	12	End	534
GI	none	Score	140
Exons	12..116, 19..117, 190..276, 191..280, 193..282, 195..296, 490..534		

Seq. No.	52760	Seq. ID	OJ990807_31.0419.C3
Gene No.	111384	Strand	+
Start	1	End	1172
Name	OJ990807_31.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	12	End	1172
GI	none	Score	105
Exons	12..116, 16..117, 17..115, 19..117, 190..276, 191..277, 193..282, 484..540, 487..540, 1122..1172, 1123..1170		

Seq. No.	52760	Seq. ID	OJ990807_31.0419.C3
Gene No.	111384	Strand	+
Start	1	End	1172
Name	OJ990807_31.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	12	End	282
GI	none	Score	49
Exons	12..116, 17..115, 19..117, 38..136, 190..279, 191..280, 195..281, 196..282		

Seq. No.	52760	Seq. ID	OJ990807_31.0419.C3
Gene No.	111384	Strand	+
Start	1	End	1172
Name	OJ990807_31.0419.C3.o1.gs	Method	GENSCAN
Start	490	End	808
GI	none	Score	.55
Exons	490..541, 705..808		

Seq. No.	52761	Seq. ID	OJ990807_31.0419.C4
Gene No.	111385	Strand	+
Start	1	End	1419
Name	OJ990807_31.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1241
GI	7444648	Score	261
Exons	1..92, 712..768, 863..937, 1122..1241		
GI Descrip.	glutathione-regulated potassium-efflux system protein kefB homolog F6N23.15 - Arabidopsis thaliana gi\|3047127\|gb\|AAC13638.1\| (AF058919) F6N23.15 gene product [Arabidopsis thaliana] gi\|7267402\|emb\|CAB80872.1\| (AL161472) putative potassium/H+ antiporter [Arabidopsis thaliana]		

Seq. No.	52761	Seq. ID	OJ990807_31.0419.C4
Gene No.	111385	Strand	+
Start	1	End	1419
Name	OJ990807_31.0419.C4.o1.gs	Method	GENSCAN
Start	51	End	1244
GI	none	Score	.92
Exons	51..92, 712..768, 863..937, 1122..1244		

Seq. No.	52761	Seq. ID	OJ990807_31.0419.C4
Gene No.	111385	Strand	+
Start	1	End	1419
Name	OJ990807_31.0419.C4.o1.gp	Method	AAT/GAP
Start	719	End	1419
GI	2428987	Score	766
Exons	719..768, 863..937, 1122..1419		
GI Descrip.	3047127 1.0e-15 (AF058919) No definition line found [Arabidopsis thaliana]		

Seq. No.	52761	Seq. ID	OJ990807_31.0419.C4
Gene No.	111386	Strand	+
Start	1466	End	1691
Name	OJ990807_31.0419.C4.o2.gp	Method	AAT/GAP
Start	1466	End	1691
GI	none	Score	385
Exons	1466..1691		

Seq. No.	52762	Seq. ID	OJ990807_31.0419.C5
Gene No.	111387	Strand	-
Start	1	End	660
Name	OJ990807_31.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	427
GI	3762888	Score	164
Exons	1..46, 370..427		

Seq. No.	52762	Seq. ID	OJ990807_31.0419.C5

Gene No.	111387	Strand	-
Start	1	End	660
Name	OJ990807_31.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	652
GI	7484790	Score	175
Exons	1..46, 370..467, 561..652		
GI Descrip.	acyl-CoA-binding protein homolog T27E11.20 - Arabidopsis thaliana gi\|4972109\|emb\|CAB43966.1\| (AL078579) putative acyl-CoA binding protein [Arabidopsis thaliana] gi\|7269631\|emb\|CAB81427.1\| (AL161571) putative acyl-CoA binding protein [Arabidopsis thaliana]		

Seq. No.	52762	Seq. ID	OJ990807_31.0419.C5
Gene No.	111387	Strand	-
Start	1	End	660
Name	OJ990807_31.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2	End	660
GI	none	Score	97
Exons	2..49, 368..460, 369..470, 369..470, 370..474, 374..499, 557..646, 558..650, 562..660, 563..646		

Seq. No.	52762	Seq. ID	OJ990807_31.0419.C5
Gene No.	111387	Strand	-
Start	1	End	660
Name	OJ990807_31.0419.C5.o1.gs	Method	GENSCAN
Start	7	End	652
GI	none	Score	.85
Exons	7..46, 370..467, 561..652		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6
Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1125
GI	4101473	Score	529
Exons	1..68, 301..420, 497..556, 634..770, 1023..1125		
GI Descrip.	(AF003382) KEA1 [Arabidopsis thaliana]		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6
Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1	End	439
GI	none	Score	100
Exons	1..69, 1..60, 3..95, 295..423, 296..421, 302..439		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6
Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	1	End	1379
GI	none	Score	88
Exons	1..78, 2..70, 3..95, 295..423, 299..421, 301..426, 488..562, 495..563, 495..578, 616..771, 623..772, 1021..1113, 1022..1114, 1248..1379		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6

Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	295	End	1379
GI	none	Score	100
Exons	295..420, 299..421, 301..432, 488..562, 492..569, 494..562, 495..563, 499..567, 616..771, 623..772, 1021..1113, 1022..1114, 1248..1379		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6
Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o1.gs	Method	GENSCAN
Start	301	End	1416
GI	none	Score	.85
Exons	301..420, 634..770, 1023..1113, 1287..1416		

Seq. No.	52763	Seq. ID	OJ990807_31.0419.C6
Gene No.	111388	Strand	-
Start	1	End	1416
Name	OJ990807_31.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	515	End	1416
GI	none	Score	68
Exons	515..562, 516..557, 517..558, 616..771, 623..772, 1021..1113, 1022..1114, 1024..1116, 1248..1358, 1248..1409, 1249..1386, 1387..1416		

Seq. No.	52764	Seq. ID	OJ990807_31.0419.C7
Gene No.	111389	Strand	-
Start	1	End	2381
Name	OJ990807_31.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	2381
GI	7486552	Score	416
Exons	1..76, 272..442, 563..882, 2340..2381		
GI Descrip.	hypothetical protein F6N23.14 - Arabidopsis thaliana gi\|3047108\|gb\|AAC13619.1\| (AF058919) F6N23.14 gene product [Arabidopsis thaliana] gi\|7267403\|emb\|CAB80873.1\| (AL161472) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52764	Seq. ID	OJ990807_31.0419.C7
Gene No.	111389	Strand	-
Start	1	End	2381
Name	OJ990807_31.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1	End	321
GI	none	Score	246
Exons	1..321, 9..320		

Seq. No.	52764	Seq. ID	OJ990807_31.0419.C7
Gene No.	111389	Strand	-
Start	1	End	2381
Name	OJ990807_31.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	385	End	654
GI	none	Score	213
Exons	385..654, 386..640, 399..641		

Seq. No.	52765	Seq. ID	OJ990807_31.0419.C8
Gene No.	111390	Strand	-

Start	1	End	2086
Name	OJ990807_31.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	2086
GI	3319876	Score	894
Exons	1..316, 493..641, 1336..1407, 1502..1762, 1924..2086		
GI Descrip.	(AJ007791) Msh3 protein [Arabidopsis thaliana]		

Seq. No.	52765	Seq. ID	OJ990807_31.0419.C8
Gene No.	111390	Strand	-
Start	1	End	2086
Name	OJ990807_31.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	5	End	2023
GI	none	Score	321
Exons	5..316, 6..320, 37..327, 184..324, 490..570, 491..568, 493..570, 561..641, 570..617, 571..621, 1333..1410, 1508..1768, 1515..1763, 1921..2022, 1922..2023		

Seq. No.	52765	Seq. ID	OJ990807_31.0419.C8
Gene No.	111390	Strand	-
Start	1	End	2086
Name	OJ990807_31.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	35	End	317
GI	none	Score	73
Exons	35..316, 87..161, 195..317		

Seq. No.	52765	Seq. ID	OJ990807_31.0419.C8
Gene No.	111390	Strand	-
Start	1	End	2086
Name	OJ990807_31.0419.C8.o1.gs	Method	GENSCAN
Start	56	End	1441
GI	none	Score	.78
Exons	56..297, 581..641, 1336..1441		

Seq. No.	52765	Seq. ID	OJ990807_31.0419.C8
Gene No.	111390	Strand	-
Start	1	End	2086
Name	OJ990807_31.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	140	End	1739
GI	none	Score	87
Exons	140..211, 141..221, 212..316, 213..320, 214..321, 214..324, 490..570, 491..568, 493..570, 561..641, 569..661, 571..642, 1333..1404, 1334..1399, 1419..1457, 1487..1732, 1502..1738, 1503..1739		

Seq. No.	52766	Seq. ID	OJ990807_31.0419.C9
Gene No.	111391	Strand	-
Start	1	End	2113
Name	OJ990807_31.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2113
GI	7269404	Score	547
Exons	1..378, 515..613, 944..1150, 1253..1407, 1825..2113		
GI Descrip.	(AL161563) putative DNA mismatch repair protein [Arabidopsis thaliana]		

Seq. No.	52766	Seq. ID	OJ990807_31.0419.C9
Gene No.	111391	Strand	-
Start	1	End	2113

Name	OJ990807_31.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	127	End	578
GI	none	Score	127
Exons	127..294, 128..295, 128..298, 510..578, 512..577	141..299, 280..378, 281..379,	

Seq. No.	52766	Seq. ID	OJ990807_31.0419.C9
Gene No.	111391	Strand	-
Start	1	End	2113
Name	OJ990807_31.0419.C9.o1.gs	Method	GENSCAN
Start	127	End	2003
GI	none	Score	.4
Exons	127..378, 944..1000, 1147..1407, 1825..1862, 1946..2003		

Seq. No.	52766	Seq. ID	OJ990807_31.0419.C9
Gene No.	111391	Strand	-
Start	1	End	2113
Name	OJ990807_31.0419.C9.o2.np	Method	AAT/NAP
Start	1872	End	2113
GI	7547005	Score	136
Exons	1872..2113		
GI Descrip.	(AF242852) DNA mismatch repair protein [Brassica napus]		

Seq. No.	52767	Seq. ID	OJ990807_31.0419.C10
Gene No.	111392	Strand	+
Start	252	End	811
Name	OJ990807_31.0419.C10.o1.gp	Method	AAT/GAP
Start	252	End	811
GI	41674_1.R1084	Score	1004
Exons	252..811		
GI Descrip.	'4101473 1.0e-35 (AF003382) KEA1 [Arabidopsis thaliana]'		

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.np	Method	AAT/NAP
Start	448	End	1744
GI	7269405	Score	340
Exons	448..561, 612..722, 876..921, 1629..1744		
GI Descrip.	(AL161563) putative protein [Arabidopsis thaliana]		

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	456	End	1754
GI	none	Score	71
Exons	456..533, 457..534, 457..534, 631..723, 873..920, 873..923,	629..721, 630..722, 630..722, 1629..1754, 1637..1720	

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	457	End	1770
GI	none	Score	122
Exons	457..534, 458..526, 459..533,	460..534, 630..722, 630..722,	

631..723, 863..925, 873..920, 874..936, 1622..1654, 1626..1745, 1629..1766, 1637..1765, 1681..1770

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	457	End	1664
GI	none	Score	117
Exons	457..534, 458..526, 460..534, 630..722, 630..722, 631..723, 863..925, 873..920, 875..922, 1626..1664		

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	663	End	1770
GI	none	Score	45
Exons	663..695, 664..687, 666..704, 676..723, 687..722, 695..727, 873..920, 874..936, 874..924, 1622..1654, 1626..1739, 1629..1769, 1681..1770		

Seq. No.	52768	Seq. ID	OJ990807_31.0419.C11
Gene No.	111393	Strand	-
Start	448	End	1770
Name	OJ990807_31.0419.C11.o1.gs	Method	GENSCAN
Start	1286	End	1753
GI	none	Score	.9
Exons	1286..1365, 1629..1753		

Seq. No.	52769	Seq. ID	OJ990807_31.0419.C14
Gene No.	111394	Strand	+
Start	1	End	1509
Name	OJ990807_31.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1509
GI	7487036	Score	162
Exons	1..316, 1401..1509		
GI Descrip.	hypothetical protein T15F16.7 - Arabidopsis thaliana gi\|3377817\|gb\|AAC28190.1\| (AF076275) contains similarity to C3HC4-type zinc fingers (Pfam: zf-C3HC4.hmm, score: 29.48) [Arabidopsis thaliana]		

Seq. No.	52769	Seq. ID	OJ990807_31.0419.C14
Gene No.	111394	Strand	+
Start	1	End	1509
Name	OJ990807_31.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	1423
GI	none	Score	94
Exons	1..57, 3..56, 97..192, 193..309, 247..312, 258..311, 1397..1423		

Seq. No.	52769	Seq. ID	OJ990807_31.0419.C14
Gene No.	111394	Strand	+
Start	1	End	1509
Name	OJ990807_31.0419.C14.o1.gs	Method	GENSCAN
Start	62	End	919
GI	none	Score	.81
Exons	62..312, 888..919		

Seq. No.	52769	Seq. ID	OJ990807_31.0419.C14
Gene No.	111394	Strand	+
Start	1	End	1509
Name	OJ990807_31.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	1345	End	1509
GI	none	Score	42
Exons	1345..1389, 1382..1507, 1396..1509, 1397..1507		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111395	Strand	+
Start	3088	End	3708
Name	OJ990807_31.0419.C21.o2.gs	Method	GENSCAN
Start	3088	End	3708
GI	none	Score	.48
Exons	3088..3259, 3629..3708		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111396	Strand	-
Start	1	End	2132
Name	OJ990807_31.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	2132
GI	3461_2.R1084	Score	921
Exons	1..136, 702..728, 833..983, 1735..1923, 2023..2132		
GI Descrip.	'461899/sp\|P34791\|CYP4_ARATH 2.0e-59 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) >gi_1076368_pir__B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana >gi_405131 (L14845) cyclophilin [Arabidopsis thaliana] >gi_1322278 (U42724) cyclophilin [Arabidopsis thaliana]'		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111396	Strand	-
Start	1	End	2132
Name	OJ990807_31.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	979
GI	461899	Score	183
Exons	1..61, 640..728, 833..979		
GI Descrip.	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) gi\|1076368\|pir\|\|B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana gi\|405131 (L14845) cyclophilin [Arabidopsis thaliana] gi\|1322278 (U42724) cyclophilin [Arabidopsis thaliana] gi\|6899901\|emb\|CAB71910.1\| (AL138642) peptidy		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111396	Strand	-
Start	1	End	2132
Name	OJ990807_31.0419.C21.o1.gs	Method	GENSCAN
Start	217	End	2052
GI	none	Score	.67
Exons	217..329, 833..983, 1735..1923, 2023..2052		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111397	Strand	-

Start	3063	End	3273
Name	OJ990807_31.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	6	End	1893
GI	none	Score	96
Exons	6..62, 8..64, 8..61, 640..729, 640..732, 819..986, 823..984, 831..986, 1730..1837, 1735..1836, 1852..1893, 1853..1876		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111397	Strand	-
Start	3063	End	3273
Name	OJ990807_31.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	9	End	986
GI	none	Score	85
Exons	9..62, 11..61, 640..732, 704..730, 819..986, 823..984		

Seq. No.	52770	Seq. ID	OJ990807_31.0419.C21
Gene No.	111397	Strand	-
Start	3063	End	3273
Name	OJ990807_31.0419.C21.o2.gp	Method	AAT/GAP
Start	3063	End	3273
GI	none	Score	370
Exons	3063..3273		

Seq. No.	52771	Seq. ID	OJ990807_31.0419.C22
Gene No.	111398	Strand	-
Start	1	End	954
Name	OJ990807_31.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	954
GI	7523517	Score	172
Exons	1..64, 456..510, 655..954		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	52772	Seq. ID	OJ990807_31.0419.C25
Gene No.	111399	Strand	+
Start	20	End	35
Name	OJ990807_31.0419.C25.o1.gs	Method	GENSCAN
Start	20	End	35
GI	none	Score	.95
Exons	20..35		

Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	1991
GI	6227005	Score	1368
Exons	1..414, 527..1051, 1164..1366, 1409..1991		
GI Descrip.	(AC009360) Contains similarity to gb\|D90908 DNA mismatch repair protein MutS2 from Synechocystis sp. and is a member of PF\|00488 Muts family of mismatch repair proteins. [Arabidopsis thaliana]		

Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o1.gs	Method	GENSCAN
Start	37	End	1921
GI	none	Score	.89

Exons	37..414, 527..1022, 1164..1225, 1343..1921		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o3.ts	Method	TBLASTX:Soybean
Start	524	End	814
GI	none	Score	61
Exons	524..643, 525..638, 529..675, 638..814, 648..812, 667..813		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o1.gp	Method	AAT/GAP
Start	538	End	957
GI	LIB3474-005-P1-K1-B2	Score	828
Exons	538..957		
GI Descrip.	'3914083/sp\|P73625\|MSU2_SYNY3 2.0e-21 MUTS2 PROTEIN >gi_1652751_dbj_BAA17670_ (D90908) DNA mismatch repair protein MutS [Synechocystis sp.]'		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	541	End	782
GI	none	Score	265
Exons	541..780, 542..775, 551..781, 552..782		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	782	End	1048
GI	none	Score	359
Exons	782..1048, 783..1046		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	878	End	1277
GI	none	Score	181
Exons	878..1054, 891..1055, 1164..1271, 1164..1277, 1165..1275		
Seq. No.	52773	Seq. ID	OJ990807_31.0419.C29
Gene No.	111400	Strand	-
Start	1	End	1991
Name	OJ990807_31.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	1526	End	1843
GI	none	Score	230
Exons	1526..1843, 1530..1841		
Seq. No.	52774	Seq. ID	OJ990807_31.0419.C34
Gene No.	111401	Strand	+
Start	544	End	648
Name	OJ990807_31.0419.C34.o1.gs	Method	GENSCAN

Start	544	End	648
GI	none	Score	.45
Exons	544..648		

Seq. No.	52775	Seq. ID	OJ990807_31.0419.C35
Gene No.	111402	Strand	+
Start	197	End	2377
Name	OJ990807_31.0419.C35.o1.gs	Method	GENSCAN
Start	197	End	2088
GI	none	Score	.77
Exons	197..308, 762..900, 1373..1444, 1524..1656, 2017..2088		

Seq. No.	52775	Seq. ID	OJ990807_31.0419.C35
Gene No.	111402	Strand	+
Start	197	End	2377
Name	OJ990807_31.0419.C35.o1.np	Method	AAT/NAP
Start	711	End	2377
GI	6633847	Score	336
Exons	711..900, 1349..1444, 1524..1667, 1766..1895, 2340..2377		
GI Descrip.	(AC008047) F2K11.19 [Arabidopsis thaliana]		

Seq. No.	52776	Seq. ID	OJ990807_31.0419.C37
Gene No.	111403	Strand	+
Start	109	End	1196
Name	OJ990807_31.0419.C37.o1.gs	Method	GENSCAN
Start	109	End	1196
GI	none	Score	.46
Exons	109..197, 493..655, 1049..1196		

Seq. No.	52776	Seq. ID	OJ990807_31.0419.C37
Gene No.	111404	Strand	-
Start	1119	End	2436
Name	OJ990807_31.0419.C37.o1.np	Method	AAT/NAP
Start	1119	End	2436
GI	7488067	Score	184
Exons	1119..1252, 1355..1449, 1540..1701, 1819..1884, 1993..2078, 2342..2436		
GI Descrip.	probable calcium-binding protein T27E11.30 - Arabidopsis thaliana gi\|4972110\|emb\|CAB43967.1\| (AL078579) putative calcium binding protein [Arabidopsis thaliana] gi\|7269632\|emb\|CAB81428.1\| (AL161571) putative calcium binding protein [Arabidopsis thaliana]		

Seq. No.	52776	Seq. ID	OJ990807_31.0419.C37
Gene No.	111404	Strand	-
Start	1119	End	2436
Name	OJ990807_31.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	1158	End	2097
GI	none	Score	53
Exons	1158..1250, 1163..1267, 1163..1252, 1332..1448, 1355..1450, 1356..1451, 1357..1452, 1542..1598, 1635..1703, 1765..1884, 1815..1892, 1989..2096, 1993..2097		

Seq. No.	52776	Seq. ID	OJ990807_31.0419.C37
Gene No.	111404	Strand	-
Start	1119	End	2436
Name	OJ990807_31.0419.C37.o2.gs	Method	GENSCAN

Start	1344	End	1712
GI	none	Score	.87
Exons	1344..1449, 1540..1712		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111405	Strand	+
Start	2381	End	3703
Name	OJ990807_31.0419.C38.o1.gs	Method	GENSCAN
Start	2381	End	3629
GI	none	Score	.83
Exons	2381..2601, 3527..3629		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111405	Strand	+
Start	2381	End	3703
Name	OJ990807_31.0419.C38.o2.np	Method	AAT/NAP
Start	2381	End	3703
GI	7021723	Score	376
Exons	2381..2420, 2457..2601, 3527..3703		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111406	Strand	-
Start	368	End	3703
Name	OJ990807_31.0419.C38.o1.np	Method	AAT/NAP
Start	368	End	3703
GI	6063557	Score	166
Exons	368..447, 699..876, 3681..3703		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111406	Strand	-
Start	368	End	3703
Name	OJ990807_31.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	2492	End	3701
GI	none	Score	135
Exons	2492..2602, 2522..2596, 3524..3697, 3525..3701, 3543..3698		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111406	Strand	-
Start	368	End	3703
Name	OJ990807_31.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	3525	End	3701
GI	none	Score	229
Exons	3525..3701, 3525..3698		

Seq. No.	52777	Seq. ID	OJ990807_31.0419.C38
Gene No.	111406	Strand	-
Start	368	End	3703
Name	OJ990807_31.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	3539	End	3701
GI	none	Score	89
Exons	3539..3619, 3549..3701, 3549..3698		

Seq. No.	52778	Seq. ID	OJ990807_31.0419.C40
Gene No.	111407	Strand	+
Start	1	End	1329

Name	OJ990807_31.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1329
GI	7450991	Score	241
Exons	1..71, 474..633, 1151..1329		
GI Descrip.	probable tyrosine--tRNA ligase (EC 6.1.1.1) - common tobacco gi\|1841468\|emb\|CAA71881.1\| (Y10990) Tyrosyl-tRNA synthetase [Nicotiana tabacum]		

Seq. No.	52778	Seq. ID	OJ990807_31.0419.C40
Gene No.	111407	Strand	+
Start	1	End	1329
Name	OJ990807_31.0419.C40.o1.gs	Method	GENSCAN
Start	474	End	633
GI	none	Score	.81
Exons	474..633		

Seq. No.	52779	Seq. ID	OJ990807_31.0419.C41
Gene No.	111408	Strand	+
Start	504	End	654
Name	OJ990807_31.0419.C41.o1.np	Method	AAT/NAP
Start	504	End	654
GI	7450991	Score	84
Exons	504..654		
GI Descrip.	probable tyrosine--tRNA ligase (EC 6.1.1.1) - common tobacco gi\|1841468\|emb\|CAA71881.1\| (Y10990) Tyrosyl-tRNA synthetase [Nicotiana tabacum]		

Seq. No.	52780	Seq. ID	OJ990807_31.0419.C43
Gene No.	111409	Strand	+
Start	288	End	619
Name	OJ990807_31.0419.C43.o1.gs	Method	GENSCAN
Start	288	End	619
GI	none	Score	.8
Exons	288..375, 513..619		

Seq. No.	52781	Seq. ID	OJ990807_31.0419.C48
Gene No.	111410	Strand	-
Start	51	End	1770
Name	OJ990807_31.0419.C48.o1.gs	Method	GENSCAN
Start	51	End	1770
GI	none	Score	.72
Exons	51..192, 1693..1770		

Seq. No.	52782	Seq. ID	OJ990807_31.0419.C52
Gene No.	111411	Strand	+
Start	302	End	418
Name	OJ990807_31.0419.C52.o1.gs	Method	GENSCAN
Start	302	End	418
GI	none	Score	.57
Exons	302..418		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.gp	Method	AAT/GAP
Start	2544	End	2908
GI	62565_1.R1084	Score	140

Exons	2544..2629, 2883..2908		
GI Descrip.	'2149018/gb\|U70541\|OSU70541 1.0e-23 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.gs	Method	GENSCAN
Start	4009	End	6637
GI	none	Score	.75
Exons	4009..4130, 4617..4957, 5078..5223, 6001..6114, 6281..6637		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.ts	Method	TBLASTX:Soybean
Start	4593	End	5138
GI	none	Score	65
Exons	4593..4637, 4598..4636, 4641..4838, 4642..4956, 4643..4957, 4645..4962, 4767..4979, 5074..5136, 5076..5138, 5079..5138		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.tc	Method	TBLASTX:Cress
Start	4598	End	4836
GI	none	Score	61
Exons	4598..4636, 4638..4835, 4639..4836		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.np	Method	AAT/NAP
Start	4600	End	6825
GI	7021723	Score	1572
Exons	4600..4957, 5078..5223, 5549..5732, 5845..5918, 6001..6114, 6281..6637, 6729..6825		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o2.tm	Method	TBLASTX:Maize
Start	4660	End	5677
GI	none	Score	479
Exons	4660..4956, 4668..4955, 4742..4969, 5074..5223, 5076..5222, 5510..5677, 5515..5676		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o2.gp	Method	AAT/GAP
Start	5635	End	6545
GI	4880896	Score	970
Exons	5635..5732, 5845..5918, 6001..6114, 6281..6545		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o3.tm	Method	TBLASTX:Maize
Start	5677	End	6036
GI	none	Score	83
Exons	5677..5730, 5678..5731, 5842..5910, 5843..5914, 5844..5915, 5844..5933, 6001..6036		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o2.ts	Method	TBLASTX:Soybean
Start	6060	End	6427
GI	none	Score	72
Exons	6060..6116, 6061..6117, 6274..6426, 6275..6427, 6275..6427		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	6286	End	6825
GI	none	Score	586
Exons	6286..6636, 6287..6637, 6722..6817, 6723..6818, 6730..6825, 6731..6823		

Seq. No.	52783	Seq. ID	OJ990807_31.0419.C53
Gene No.	111412	Strand	+
Start	4009	End	6825
Name	OJ990807_31.0419.C53.o3.gp	Method	AAT/GAP
Start	6541	End	6825
GI	LIB3433-017-Q6-K1-A10	Score	328
Exons	6541..6637, 6729..6825		
GI Descrip.	'4176420/dbj\|BAA37167\| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	52784	Seq. ID	OJ990807_31.0419.C60
Gene No.	111413	Strand	-
Start	49	End	168
Name	OJ990807_31.0419.C60.o1.gs	Method	GENSCAN
Start	49	End	168
GI	none	Score	.61
Exons	49..168		

Seq. No.	52785	Seq. ID	OJ990807_31.0419.C61
Gene No.	111414	Strand	+
Start	98	End	688
Name	OJ990807_31.0419.C61.o1.gs	Method	GENSCAN
Start	98	End	688
GI	none	Score	1
Exons	98..688		

Seq. No.	52785	Seq. ID	OJ990807_31.0419.C61
Gene No.	111415	Strand	-
Start	1205	End	1967
Name	OJ990807_31.0419.C61.o2.gs	Method	GENSCAN
Start	1205	End	1967

GI	none	Score	.55
Exons	1205..1216, 1696..1815, 1896..1967		
Seq. No.	52786	Seq. ID	OJ990807_31.0419.C64
Gene No.	111416	Strand	-
Start	83	End	574
Name	OJ990807_31.0419.C64.o1.gs	Method	GENSCAN
Start	83	End	574
GI	none	Score	.41
Exons	83..574		
Seq. No.	52787	Seq. ID	OJ990807_31.0419.C66
Gene No.	111417	Strand	-
Start	299	End	798
Name	OJ990807_31.0419.C66.o1.gs	Method	GENSCAN
Start	299	End	746
GI	none	Score	.87
Exons	299..324, 662..746		
Seq. No.	52787	Seq. ID	OJ990807_31.0419.C66
Gene No.	111417	Strand	-
Start	299	End	798
Name	OJ990807_31.0419.C66.o1.np	Method	AAT/NAP
Start	299	End	798
GI	1706551	Score	128
Exons	299..324, 662..798		
GI Descrip.	GLUCAN ENDO-1,3-BETA-GLUCOSIDASE PRECURSOR ((1->3)-BETA-GLUCAN ENDOHYDROLASE) ((1->3)-BETA-GLUCANASE) (BETA-1,3-ENDOGLUCANASE) gi\|924953 (U30323) beta 1,3-glucanase [Triticum aestivum]		
Seq. No.	52787	Seq. ID	OJ990807_31.0419.C66
Gene No.	111417	Strand	-
Start	299	End	798
Name	OJ990807_31.0419.C66.o1.tm	Method	TBLASTX:Maize
Start	657	End	798
GI	none	Score	76
Exons	657..791, 660..797, 661..798		
Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	9	End	242
GI	none	Score	62
Exons	9..113, 19..114, 34..96, 52..240, 98..241, 105..242		
Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o2.tm	Method	TBLASTX:Maize
Start	25	End	560
GI	none	Score	113
Exons	25..114, 52..195, 54..191, 86..238, 193..240, 195..242, 204..275, 326..367, 327..368, 362..412, 363..404, 525..560, 525..560		
Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67

Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.np	Method	AAT/NAP
Start	34	End	1544
GI	7486483	Score	642
Exons	34..98, 138..239, 331..401, 508..563, 992..1130, 1254..1544		
GI Descrip.	hypothetical protein F6E13.27 - Arabidopsis thaliana gi\|3212867\|gb\|AAC23418.1\| (AC004005) unknown protein [Arabidopsis thaliana]		

Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.gs	Method	GENSCAN
Start	66	End	1504
GI	none	Score	.69
Exons	66..239, 331..415, 992..1090, 1131..1218, 1254..1504		

Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	336	End	1402
GI	none	Score	60
Exons	336..404, 338..397, 508..528, 989..1132, 990..1133, 991..1134, 1250..1315, 1253..1402, 1269..1379		

Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	498	End	1411
GI	none	Score	57
Exons	498..596, 988..1080, 989..1132, 990..1133, 990..1133, 1250..1327, 1253..1411, 1269..1379		

Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.gp	Method	AAT/GAP
Start	514	End	1445
GI	2443104	Score	703
Exons	514..563, 992..1130, 1254..1445		
GI Descrip.	3212867 7.0e-35 (AC004005) unknown protein [Arabidopsis thaliana]		

Seq. No.	52788	Seq. ID	OJ990807_31.0419.C67
Gene No.	111418	Strand	-
Start	34	End	1544
Name	OJ990807_31.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	1252	End	1544
GI	none	Score	129
Exons	1252..1371, 1253..1543, 1269..1544, 1380..1544		

Seq. No.	52789	Seq. ID	OJ990807_31.0419.C70
Gene No.	111419	Strand	+
Start	67	End	1292

Name	OJ990807_31.0419.C70.o1.np	Method	AAT/NAP
Start	67	End	1292
GI	6721558	Score	223
Exons	67..166, 866..990, 1093..1292		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi\|6815083\|dbj\|BAA90369.1\| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52789	Seq. ID	OJ990807_31.0419.C70
Gene No.	111419	Strand	+
Start	67	End	1292
Name	OJ990807_31.0419.C70.o2.np	Method	AAT/NAP
Start	590	End	1292
GI	6721561	Score	112
Exons	590..625, 1025..1292		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi\|6815086\|dbj\|BAA90372.1\| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-
Start	59	End	2539
Name	OJ990807_31.0419.C71.o1.gs	Method	GENSCAN
Start	59	End	2470
GI	none	Score	.7
Exons	59..219, 983..1187, 1375..1655, 1762..2060, 2220..2470		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-
Start	59	End	2539
Name	OJ990807_31.0419.C71.o1.np	Method	AAT/NAP
Start	810	End	2539
GI	4680180	Score	1361
Exons	810..2064, 2104..2539		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-
Start	59	End	2539
Name	OJ990807_31.0419.C71.o2.tw	Method	TBLASTX:Wheat
Start	819	End	1441
GI	none	Score	62
Exons	819..935, 820..942, 968..1147, 1141..1392, 1184..1291, 1385..1441		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-
Start	59	End	2539
Name	OJ990807_31.0419.C71.o1.tw	Method	TBLASTX:Wheat
Start	1569	End	1947
GI	none	Score	42
Exons	1569..1595, 1570..1596, 1609..1947, 1631..1939		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-

Start	59	End	2539
Name	OJ990807_31.0419.C71.o1.tm	Method	TBLASTX:Maize
Start	1642	End	1947
GI	none	Score	172
Exons	1642..1947, 1643..1909		

Seq. No.	52790	Seq. ID	OJ990807_31.0419.C71
Gene No.	111420	Strand	-
Start	59	End	2539
Name	OJ990807_31.0419.C71.o3.tw	Method	TBLASTX:Wheat
Start	2176	End	2451
GI	none	Score	52
Exons	2176..2451, 2279..2308		

Seq. No.	52791	Seq. ID	OJ990807_31.0419.C73
Gene No.	111421	Strand	+
Start	934	End	1029
Name	OJ990807_31.0419.C73.o1.gs	Method	GENSCAN
Start	934	End	1029
GI	none	Score	.92
Exons	934..1029		

Seq. No.	52792	Seq. ID	OJ990807_31.0419.C78
Gene No.	111422	Strand	+
Start	201	End	473
Name	OJ990807_31.0419.C78.o1.gs	Method	GENSCAN
Start	201	End	473
GI	none	Score	.85
Exons	201..473		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111423	Strand	+
Start	2005	End	2861
Name	OJ990807_31.0419.C83.o2.gs	Method	GENSCAN
Start	2005	End	2861
GI	none	Score	.64
Exons	2005..2133, 2446..2613, 2793..2861		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111424	Strand	-
Start	123	End	1676
Name	OJ990807_31.0419.C83.o2.tm	Method	TBLASTX:Maize
Start	34	End	273
GI	none	Score	138
Exons	34..273, 35..271		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111424	Strand	-
Start	123	End	1676
Name	OJ990807_31.0419.C83.o1.gs	Method	GENSCAN
Start	123	End	1676
GI	none	Score	.74
Exons	123..347, 467..645, 787..1676		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111424	Strand	-
Start	123	End	1676

Name	OJ990807_31.0419.C83.o1.tw	Method	TBLASTX:Wheat
Start	140	End	476
GI	none	Score	111
Exons	140..358, 140..256, 148..357, 330..449, 350..409, 432..476		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111424	Strand	-
Start	123	End	1676
Name	OJ990807_31.0419.C83.o1.ts	Method	TBLASTX:Soybean
Start	780	End	1097
GI	none	Score	158
Exons	780..869, 867..1097		

Seq. No.	52793	Seq. ID	OJ990807_31.0419.C83
Gene No.	111424	Strand	-
Start	123	End	1676
Name	OJ990807_31.0419.C83.o1.tm	Method	TBLASTX:Maize
Start	801	End	1367
GI	none	Score	52
Exons	801..860, 804..863, 864..1151, 865..1146, 868..1164, 1185..1367		

Seq. No.	52794	Seq. ID	OJ990807_31.0419.C84
Gene No.	111425	Strand	+
Start	1259	End	1640
Name	OJ990807_31.0419.C84.o1.gp	Method	AAT/GAP
Start	1259	End	1640
GI	none	Score	709
Exons	1259..1640		

Seq. No.	52794	Seq. ID	OJ990807_31.0419.C84
Gene No.	111426	Strand	-
Start	117	End	454
Name	OJ990807_31.0419.C84.o1.gs	Method	GENSCAN
Start	117	End	454
GI	none	Score	.46
Exons	117..454		

Seq. No.	52795	Seq. ID	OJ990807_31.0419.C87
Gene No.	111427	Strand	-
Start	1	End	786
Name	OJ990807_31.0419.C87.o1.np	Method	AAT/NAP
Start	1	End	698
GI	1706551	Score	300
Exons	1..698		
GI Descrip.	GLUCAN ENDO-1,3-BETA-GLUCOSIDASE PRECURSOR ((1->3)-BETA-GLUCAN ENDOHYDROLASE) ((1->3)-BETA-GLUCANASE) (BETA-1,3-ENDOGLUCANASE) gi\|924953 (U30323) beta 1,3-glucanase [Triticum aestivum]		

Seq. No.	52795	Seq. ID	OJ990807_31.0419.C87
Gene No.	111427	Strand	-
Start	1	End	786
Name	OJ990807_31.0419.C87.o1.gs	Method	GENSCAN
Start	24	End	786
GI	none	Score	.64
Exons	24..786		

Seq. No.	52795	Seq. ID	OJ990807_31.0419.C87

Gene No.	111427	Strand	-
Start	1	End	786
Name	OJ990807_31.0419.C87.o1.ts	Method	TBLASTX:Soybean
Start	63	End	662
GI	none	Score	36
Exons	63..161, 172..228, 176..229, 262..387, 277..372, 373..582, 448..600, 576..662		

Seq. No.	52795	Seq. ID	OJ990807_31.0419.C87
Gene No.	111427	Strand	-
Start	1	End	786
Name	OJ990807_31.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	63	End	405
GI	none	Score	71
Exons	63..161, 64..171, 172..228, 173..277, 262..387, 263..388, 268..405		

Seq. No.	52796	Seq. ID	OJ990807_31.0419.C94
Gene No.	111428	Strand	-
Start	813	End	1151
Name	OJ990807_31.0419.C94.o1.np	Method	AAT/NAP
Start	813	End	970
GI	7340884	Score	67
Exons	813..970		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52796	Seq. ID	OJ990807_31.0419.C94
Gene No.	111428	Strand	-
Start	813	End	1151
Name	OJ990807_31.0419.C94.o1.gs	Method	GENSCAN
Start	850	End	1151
GI	none	Score	.78
Exons	850..1151		

Seq. No.	52797	Seq. ID	OJ990807_31.0419.C96
Gene No.	111429	Strand	-
Start	136	End	926
Name	OJ990807_31.0419.C96.o1.gs	Method	GENSCAN
Start	136	End	926
GI	none	Score	.78
Exons	136..225, 831..926		

Seq. No.	52798	Seq. ID	OJ990807_31.0419.C99
Gene No.	111430	Strand	+
Start	26	End	380
Name	OJ990807_31.0419.C99.o1.gs	Method	GENSCAN
Start	26	End	380
GI	none	Score	.98
Exons	26..380		

Seq. No.	52799	Seq. ID	OJ990807_31.0419.C101
Gene No.	111431	Strand	-
Start	1	End	720
Name	OJ990807_31.0419.C101.o1.gp	Method	AAT/GAP
Start	1	End	720
GI	20816_1.R1084	Score	713

Exons	1..34, 134..208, 350..486, 572..720		
GI Descrip.	'2293332 4.0e-28 (AF011338) unknown [Dictyostelium discoideum]'		

Seq. No.	52799	Seq. ID	OJ990807_31.0419.C101
Gene No.	111431	Strand	-
Start	1	End	720
Name	OJ990807_31.0419.C101.o1.tm	Method	TBLASTX:Maize
Start	1	End	720
GI	none	Score	46
Exons	1..54, 2..46, 122..199, 132..206, 132..209, 341..487, 349..486, 351..488, 574..720, 576..719, 652..720		

Seq. No.	52799	Seq. ID	OJ990807_31.0419.C101
Gene No.	111431	Strand	-
Start	1	End	720
Name	OJ990807_31.0419.C101.o1.ts	Method	TBLASTX:Soybean
Start	87	End	720
GI	none	Score	90
Exons	87..206, 122..199, 132..209, 341..493, 350..490, 351..491, 565..657, 579..668, 652..720		

Seq. No.	52799	Seq. ID	OJ990807_31.0419.C101
Gene No.	111431	Strand	-
Start	1	End	720
Name	OJ990807_31.0419.C101.o1.np	Method	AAT/NAP
Start	100	End	720
GI	3252825	Score	208
Exons	100..208, 350..501, 582..720		
GI Descrip.	(AC004382) Unknown gene product [Homo sapiens]		

Seq. No.	52800	Seq. ID	OJ990527_20.0419.C1
Gene No.	111432	Strand	-
Start	69	End	189
Name	OJ990527_20.0419.C1.o1.gs	Method	GENSCAN
Start	69	End	189
GI	none	Score	.51
Exons	69..189		

Seq. No.	52801	Seq. ID	OJ990527_20.0419.C2
Gene No.	111433	Strand	+
Start	332	End	474
Name	OJ990527_20.0419.C2.o1.gs	Method	GENSCAN
Start	332	End	474
GI	none	Score	.65
Exons	332..474		

Seq. No.	52802	Seq. ID	OJ990527_20.0419.C3
Gene No.	111434	Strand	+
Start	369	End	768
Name	OJ990527_20.0419.C3.o1.gs	Method	GENSCAN
Start	369	End	768
GI	none	Score	.41
Exons	369..437, 661..768		

Seq. No.	52803	Seq. ID	OJ990527_20.0419.C7
Gene No.	111435	Strand	+
Start	185	End	2100

Name	OJ990527_20.0419.C7.o1.gs	Method	GENSCAN
Start	185	End	1073
GI	none	Score	.47
Exons	185..266, 587..736, 1027..1073		

Seq. No.	52803	Seq. ID	OJ990527_20.0419.C7
Gene No.	111435	Strand	+
Start	185	End	2100
Name	OJ990527_20.0419.C7.o1.np	Method	AAT/NAP
Start	570	End	2100
GI	6094274	Score	474
Exons	570..736, 833..929, 1027..1115, 1210..1270, 1358..1444, 1527..1604, 1694..1750, 1857..1911, 2001..2100		
GI Descrip.	POLLEN SPECIFIC PROTEIN SF21 gi\|7489336\|pir\|\|T13993 hypothetical protein sf21 - common sunflower gi\|2655926\|emb\|CAA70260.1\| (Y09057) sf21 [Helianthus annuus]		

Seq. No.	52803	Seq. ID	OJ990527_20.0419.C7
Gene No.	111435	Strand	+
Start	185	End	2100
Name	OJ990527_20.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	634	End	1598
GI	none	Score	126
Exons	634..735, 636..734, 819..905, 835..906, 1024..1116, 1205..1267, 1339..1455, 1346..1453, 1524..1598, 1535..1597		

Seq. No.	52803	Seq. ID	OJ990527_20.0419.C7
Gene No.	111435	Strand	+
Start	185	End	2100
Name	OJ990527_20.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	634	End	2100
GI	none	Score	149
Exons	634..735, 636..734, 819..905, 835..906, 1024..1116, 1205..1267, 1345..1446, 1346..1453, 1515..1601, 1526..1615, 1685..1747, 1693..1749, 1871..1909, 1954..2100, 1959..2099		

Seq. No.	52803	Seq. ID	OJ990527_20.0419.C7
Gene No.	111435	Strand	+
Start	185	End	2100
Name	OJ990527_20.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	634	End	2100
GI	none	Score	133
Exons	634..735, 636..734, 834..905, 835..906, 1024..1116, 1026..1115, 1205..1267, 1222..1263, 1345..1446, 1346..1447, 1410..1451, 1515..1619, 1525..1611, 1526..1627, 1685..1747, 1693..1749, 1954..2100, 2001..2090		

Seq. No.	52804	Seq. ID	OJ990527_20.0419.C13
Gene No.	111436	Strand	+
Start	1	End	1026
Name	OJ990527_20.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	1026
GI	2564_1.R1084	Score	1967
Exons	1..1026		
GI Descrip.	'3288564/emb\|CAA65776\| 8.0e-43 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]'		

Seq. No.	52804	Seq. ID	OJ990527_20.0419.C13
Gene No.	111437	Strand	-
Start	517	End	1017
Name	OJ990527_20.0419.C13.o1.gs	Method	GENSCAN
Start	517	End	1017
GI	none	Score	.46
Exons	517..773, 934..1017		

Seq. No.	52805	Seq. ID	OJ990527_20.0419.C14
Gene No.	111438	Strand	+
Start	880	End	1067
Name	OJ990527_20.0419.C14.o1.gs	Method	GENSCAN
Start	880	End	1067
GI	none	Score	.4
Exons	880..1067		

Seq. No.	52806	Seq. ID	OJ990527_20.0419.C15
Gene No.	111439	Strand	-
Start	101	End	260
Name	OJ990527_20.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	94	End	260
GI	none	Score	96
Exons	94..216, 94..258, 98..259, 102..260		

Seq. No.	52806	Seq. ID	OJ990527_20.0419.C15
Gene No.	111439	Strand	-
Start	101	End	260
Name	OJ990527_20.0419.C15.o1.gs	Method	GENSCAN
Start	101	End	247
GI	none	Score	.49
Exons	101..247		

Seq. No.	52807	Seq. ID	OJ990527_20.0419.C17
Gene No.	111440	Strand	+
Start	535	End	795
Name	OJ990527_20.0419.C17.o1.gs	Method	GENSCAN
Start	535	End	795
GI	none	Score	.53
Exons	535..635, 684..795		

Seq. No.	52807	Seq. ID	OJ990527_20.0419.C17
Gene No.	111441	Strand	-
Start	1	End	143
Name	OJ990527_20.0419.C17.o1.gp	Method	AAT/GAP
Start	1	End	143
GI	65275_2.R1084	Score	250
Exons	1..143		
GI Descrip.	'3288564/emb\|CAA65776\| 1.0e-14 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]'		

Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	971
GI	2062176	Score	243
Exons	1..489, 928..971		

GI Descrip.	(AC001645) Myb-related transcription activator (MybSt1) isolog [Arabidopsis thaliana]		
Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	202	End	419
GI	none	Score	63
Exons	202..327, 219..419, 219..416		
Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	218	End	416
GI	none	Score	277
Exons	218..361, 219..416, 219..416		
Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	218	End	419
GI	none	Score	309
Exons	218..361, 219..419		
Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	218	End	419
GI	none	Score	273
Exons	218..361, 219..419, 228..416		
Seq. No.	52808	Seq. ID	OJ990527_20.0419.C28
Gene No.	111442	Strand	+
Start	1	End	971
Name	OJ990527_20.0419.C28.o1.gs	Method	GENSCAN
Start	220	End	866
GI	none	Score	.8
Exons	220..416, 548..732, 734..866		
Seq. No.	52809	Seq. ID	OJ990527_20.0419.C29
Gene No.	111443	Strand	-
Start	539	End	1136
Name	OJ990527_20.0419.C29.o1.gp	Method	AAT/GAP
Start	539	End	1136
GI	70192_1.R1084	Score	891
Exons	539..968, 1094..1136		
GI Descrip.	'3643610 6.0e-60 (AC005395) putative serine/threonine protein kinase [Arabidopsis thaliana]'		
Seq. No.	52809	Seq. ID	OJ990527_20.0419.C29
Gene No.	111443	Strand	-
Start	539	End	1136
Name	OJ990527_20.0419.C29.o1.tm	Method	TBLASTX:Maize

Start	837	End	1136
GI	none	Score	139
Exons	837..857, 861..971, 865..981,	870..986,	1091..1135, 1098..1136

Seq. No.	52809	Seq. ID	OJ990527_20.0419.C29
Gene No.	111443	Strand	-
Start	539	End	1136
Name	OJ990527_20.0419.C29.o1.np	Method	AAT/NAP
Start	870	End	1136
GI	7434310	Score	158
Exons	870..968, 1094..1136		
GI Descrip.	serine/threonine-specific protein kinase homolog T16I18.40 - Arabidopsis thaliana gi\|7270230\|emb\|CAB80000.1\| (AL161582) putative serine/threonine protein kinase [Arabidopsis thaliana]		

Seq. No.	52810	Seq. ID	OJ990527_20.0419.C37
Gene No.	111444	Strand	+
Start	61	End	165
Name	OJ990527_20.0419.C37.o1.gs	Method	GENSCAN
Start	61	End	165
GI	none	Score	.97
Exons	61..165		

Seq. No.	52811	Seq. ID	OJ990527_20.0419.C43
Gene No.	111445	Strand	+
Start	46	End	354
Name	OJ990527_20.0419.C43.o1.gs	Method	GENSCAN
Start	46	End	354
GI	none	Score	.74
Exons	46..118, 259..354		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111446	Strand	+
Start	1	End	9259
Name	OJ990527_20.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	3249
GI	7446421	Score	1519
Exons	1..24, 556..686, 1185..1226, 1312..1420, 1651..1729, 1831..2127, 2221..2333, 2547..2654, 2728..2790, 2873..3040, 3115..3249		
GI Descrip.	calcium-dependent protein kinase (EC 2.7.1.-) T3K9.9 - Arabidopsis thaliana gi\|3402722\|gb\|AAD12016.1\| (AC004261) CPDK-related protein kinase [Arabidopsis thaliana] gi\|5020366\|gb\|AAD38058.1\|AF153351_1 (AF153351) CDPK-related kinase 1 [Arabidopsis thaliana]		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111446	Strand	+
Start	1	End	9259
Name	OJ990527_20.0419.C45.o1.gs	Method	GENSCAN
Start	556	End	9240
GI	none	Score	.71
Exons	556..686, 1185..1226, 1312..1420, 1651..1729, 1831..2127, 2221..2333, 2547..2654, 2728..2790, 2873..3040, 3161..3282, 4014..4206, 4495..4584, 5517..5632, 6245..6616, 7009..7245, 7359..7461, 7752..7829, 8233..8462, 9030..9240		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45

Gene No.	111446	Strand	+
Start	1	End	9259
Name	OJ990527_20.0419.C45.o2.np	Method	AAT/NAP
Start	6294	End	9259
GI	7487634	Score	1002
Exons	6294..6616, 6801..6890, 7006..7245, 7359..7461, 8233..8462, 9030..9259		
GI Descrip.	hypothetical protein T3K9.8 - Arabidopsis thaliana gi\|3402703\|gb\|AAD11997.1\| (AC004261) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111447	Strand	+
Start	11997	End	13422
Name	OJ990527_20.0419.C45.o4.np	Method	AAT/NAP
Start	11997	End	13422
GI	5852084	Score	86
Exons	11997..12026, 13339..13422		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111448	Strand	-
Start	3221	End	3696
Name	OJ990527_20.0419.C45.o1.gp	Method	AAT/GAP
Start	3221	End	3696
GI	uC-osroM202029b02a1	Score	905
Exons	3221..3696		
GI Descrip.	'5803242/dbj\|AP000399.1\|AP000399 7.0e-30 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	553	End	3240
GI	none	Score	182
Exons	553..687, 555..650, 641..691, 1186..1227, 1304..1420, 1309..1419, 1648..1728, 1650..1742, 1650..1727, 1828..2121, 1828..2082, 1829..2128, 1830..2129, 2223..2333, 2541..2654, 2559..2606, 2727..2804, 2728..2784, 2881..3042, 2882..3040, 3090..3239, 3115..3240		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	553	End	3255
GI	none	Score	219
Exons	553..687, 553..630, 554..691, 555..689, 1186..1227, 1187..1222, 1304..1354, 1309..1353, 2538..2654, 2541..2654, 2714..2788, 2727..2789, 2727..2804, 2728..2793, 2843..3040, 2872..3051, 2873..3040, 2874..3068, 2875..3042, 3090..3251, 3094..3252, 3109..3255		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463

Name	OJ990527_20.0419.C45.o3.ts	Method	TBLASTX:Soybean
Start	553	End	1423
GI	none	Score	194
Exons	553..687, 555..689, 555..650, 1186..1227, 1261..1422, 1304..1423		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1356	End	2324
GI	none	Score	110
Exons	1356..1412, 1357..1419, 1358..1420, 1648..1728, 1648..1737, 1650..1730, 1811..2128, 1828..2124, 1830..2129, 1830..2144, 2223..2324, 2223..2321, 2225..2323		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	1672	End	3255
GI	none	Score	87
Exons	1672..1728, 1672..1728, 1677..1730, 1811..1882, 1828..1899, 1830..1898, 1927..2127, 1934..2128, 1935..2129, 2220..2333, 2221..2334, 2223..2333, 2538..2654, 2541..2654, 2714..2788, 2727..2789, 2727..2804, 2728..2793, 2843..3040, 2872..3051, 2873..3040, 2874..3068, 2875..3042, 3090..3251, 3094..3252, 3109..3255		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1674	End	2135
GI	none	Score	70
Exons	1674..1730, 1675..1731, 1809..2135, 1832..1981, 2021..2125		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o4.tm	Method	TBLASTX:Maize
Start	6350	End	7071
GI	none	Score	291
Exons	6350..6442, 6423..6617, 6506..6577, 6786..6893, 6798..6893, 6799..6894, 7007..7030, 7007..7027, 7018..7071, 7031..7069		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o6.tm	Method	TBLASTX:Maize
Start	7142	End	7466
GI	none	Score	128
Exons	7142..7246, 7154..7246, 7189..7248, 7212..7247, 7357..7464, 7358..7462, 7359..7466, 7360..7464		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463

Name	OJ990527_20.0419.C45.o2.tc	Method	TBLASTX:Cress
Start	7148	End	8444
GI	none	Score	39
Exons	7148..7192, 7163..7246, 7199..7246, 7363..7464, 7365..7454, 8230..8430, 8232..8444, 8233..8442		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o3.np	Method	AAT/NAP
Start	8184	End	12975
GI	2129832	Score	573
Exons	8184..8209, 10614..11031, 12697..12896, 12927..12975		
GI Descrip.	heat shock transcription factor 5 - soybean gi\|671868\|emb\|CAA87080\| (Z46956) heat shock transcription factor 5 [Glycine max]		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o3.tm	Method	TBLASTX:Maize
Start	8229	End	9250
GI	none	Score	363
Exons	8229..8465, 8239..8463, 8259..8465, 8991..9074, 9023..9106, 9025..9240, 9027..9161, 9028..9234, 9065..9250, 9158..9241		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o2.gs	Method	GENSCAN
Start	10272	End	16463
GI	none	Score	.65
Exons	10272..10331, 10384..11031, 12697..12977, 13124..13164, 15903..16142, 16459..16463		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	10631	End	12873
GI	none	Score	103
Exons	10631..10684, 10639..10755, 10933..11031, 10937..11032, 10945..11034, 12697..12873, 12752..12871		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	10948	End	12874
GI	none	Score	71
Exons	10948..11031, 10949..11032, 10951..11034, 12697..12873, 12752..12874		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o5.tm	Method	TBLASTX:Maize

Start	10987	End	12874
GI	none	Score	141
Exons	10987..11031, 12697..12873, 12752..12874		

Seq. No.	52812	Seq. ID	OJ990527_20.0419.C45
Gene No.	111449	Strand	-
Start	8184	End	16463
Name	OJ990527_20.0419.C45.o3.tc	Method	TBLASTX:Cress
Start	12652	End	12874
GI	none	Score	102
Exons	12652..12873, 12752..12874		

Seq. No.	52813	Seq. ID	OJ990527_20.0419.C47
Gene No.	111450	Strand	+
Start	1437	End	1868
Name	OJ990527_20.0419.C47.o1.gs	Method	GENSCAN
Start	1437	End	1868
GI	none	Score	.4
Exons	1437..1868		

Seq. No.	52813	Seq. ID	OJ990527_20.0419.C47
Gene No.	111451	Strand	-
Start	2778	End	3582
Name	OJ990527_20.0419.C47.o2.gs	Method	GENSCAN
Start	2778	End	3553
GI	none	Score	.7
Exons	2778..2821, 3373..3553		

Seq. No.	52813	Seq. ID	OJ990527_20.0419.C47
Gene No.	111451	Strand	-
Start	2778	End	3582
Name	OJ990527_20.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	3126	End	3582
GI	none	Score	36
Exons	3126..3170, 3129..3155, 3168..3326, 3169..3327, 3170..3349, 3330..3425, 3331..3426, 3365..3562, 3429..3563, 3430..3582		

Seq. No.	52814	Seq. ID	OJ990527_20.0419.C48
Gene No.	111452	Strand	+
Start	1	End	4089
Name	OJ990527_20.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	4089
GI	6119851	Score	109
Exons	1..54, 875..1309, 4049..4089		
GI Descrip.	(AF139114) subtilisin-like serine protease [Neospora caninum]		

Seq. No.	52814	Seq. ID	OJ990527_20.0419.C48
Gene No.	111452	Strand	+
Start	1	End	4089
Name	OJ990527_20.0419.C48.o1.gs	Method	GENSCAN
Start	637	End	1348
GI	none	Score	.84
Exons	637..843, 908..1348		

Seq. No.	52814	Seq. ID	OJ990527_20.0419.C48
Gene No.	111453	Strand	-
Start	2218	End	2577

Name	OJ990527_20.0419.C48.o2.gs	Method	GENSCAN
Start	2218	End	2577
GI	none	Score	.69
Exons	2218..2577		

Seq. No.	52815	Seq. ID	OJ990527_20.0419.C50
Gene No.	111454	Strand	-
Start	1148	End	1313
Name	OJ990527_20.0419.C50.o1.np	Method	AAT/NAP
Start	1148	End	1313
GI	7340920	Score	114
Exons	1148..1313		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52816	Seq. ID	OJ990527_20.0419.C53
Gene No.	111455	Strand	+
Start	1	End	798
Name	OJ990527_20.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	798
GI	6815072	Score	709
Exons	1..635, 723..798		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	52816	Seq. ID	OJ990527_20.0419.C53
Gene No.	111455	Strand	+
Start	1	End	798
Name	OJ990527_20.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	281	End	601
GI	none	Score	187
Exons	281..505, 323..505, 355..507, 503..601, 523..600		

Seq. No.	52816	Seq. ID	OJ990527_20.0419.C53
Gene No.	111455	Strand	+
Start	1	End	798
Name	OJ990527_20.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	325	End	793
GI	none	Score	180
Exons	325..516, 326..517, 521..670, 701..793, 709..792		

Seq. No.	52817	Seq. ID	OJ990527_20.0419.C54
Gene No.	111456	Strand	+
Start	72	End	1201
Name	OJ990527_20.0419.C54.o1.gs	Method	GENSCAN
Start	72	End	1201
GI	none	Score	.6
Exons	72..123, 616..688, 1124..1201		

Seq. No.	52817	Seq. ID	OJ990527_20.0419.C54
Gene No.	111457	Strand	-
Start	1217	End	1464
Name	OJ990527_20.0419.C54.o1.gp	Method	AAT/GAP
Start	1217	End	1464
GI	4107143	Score	322
Exons	1217..1464		
GI Descrip.	5803242/dbj\|AP000399.1\|AP000399 7.0e-30 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	52817	Seq. ID	OJ990527_20.0419.C54
Gene No.	111458	Strand	-
Start	1536	End	1655
Name	OJ990527_20.0419.C54.o2.gs	Method	GENSCAN
Start	1536	End	1655
GI	none	Score	.7
Exons	1536..1655		

Seq. No.	52818	Seq. ID	OJ990527_20.0419.C56
Gene No.	111459	Strand	+
Start	55	End	2320
Name	OJ990527_20.0419.C56.o1.gs	Method	GENSCAN
Start	55	End	1989
GI	none	Score	.87
Exons	55..198, 273..341, 400..509, 618..670, 769..935, 973..1018, 1115..1422, 1514..1655, 1859..1989		

Seq. No.	52818	Seq. ID	OJ990527_20.0419.C56
Gene No.	111459	Strand	+
Start	55	End	2320
Name	OJ990527_20.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	1171	End	1657
GI	none	Score	64
Exons	1171..1245, 1189..1239, 1217..1372, 1265..1372, 1266..1391, 1267..1392, 1367..1444, 1368..1433, 1372..1452, 1496..1582, 1595..1657		

Seq. No.	52818	Seq. ID	OJ990527_20.0419.C56
Gene No.	111459	Strand	+
Start	55	End	2320
Name	OJ990527_20.0419.C56.o1.gp	Method	AAT/GAP
Start	1507	End	2320
GI	33640_1.R1084	Score	1069
Exons	1507..1655, 1859..2320		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52819	Seq. ID	OJ990527_20.0419.C57
Gene No.	111460	Strand	+
Start	5057	End	7946
Name	OJ990527_20.0419.C57.o1.gs	Method	GENSCAN
Start	5057	End	7946
GI	none	Score	.47
Exons	5057..5230, 6284..6486, 6791..6894, 7200..7233, 7409..7614, 7822..7946		

Seq. No.	52819	Seq. ID	OJ990527_20.0419.C57
Gene No.	111460	Strand	+
Start	5057	End	7946
Name	OJ990527_20.0419.C57.o1.np	Method	AAT/NAP
Start	6296	End	7856
GI	4680186	Score	180
Exons	6296..6457, 7039..7172, 7802..7856		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52819	Seq. ID	OJ990527_20.0419.C57

Gene No.	111461	Strand	+
Start	8348	End	9315
Name	OJ990527_20.0419.C57.o2.np	Method	AAT/NAP
Start	8348	End	9315
GI	6907086	Score	489
Exons	8348..9099, 9151..9315		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52819	Seq. ID	OJ990527_20.0419.C57
Gene No.	111462	Strand	-
Start	6597	End	7023
Name	OJ990527_20.0419.C57.o1.gp	Method	AAT/GAP
Start	6597	End	7023
GI	4878407	Score	688
Exons	6597..7023		
GI Descrip.	6069643/dbj\|AP000616.1\|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	52819	Seq. ID	OJ990527_20.0419.C57
Gene No.	111463	Strand	-
Start	8520	End	9258
Name	OJ990527_20.0419.C57.o2.gs	Method	GENSCAN
Start	8520	End	9258
GI	none	Score	.46
Exons	8520..8666, 8902..9122, 9213..9258		

Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111464	Strand	+
Start	1	End	177
Name	OJ990527_20.0419.C58.o1.np	Method	AAT/NAP
Start	1	End	177
GI	6069654	Score	120
Exons	1..177		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111465	Strand	+
Start	1574	End	1795
Name	OJ990527_20.0419.C58.o1.gs	Method	GENSCAN
Start	1574	End	1795
GI	none	Score	.48
Exons	1574..1795		

Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o2.gs	Method	GENSCAN
Start	2681	End	5734
GI	none	Score	.89
Exons	2681..3492, 4441..4753, 4934..5734		

Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	2687	End	3005
GI	none	Score	67

Exons	2687..2788, 2690..2752, 2732..3004, 2859..3005		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o2.np	Method	AAT/NAP
Start	2687	End	5859
GI	1655930	Score	976
Exons	2687..3486, 4441..4753, 4934..5478, 5835..5859		
GI Descrip.	(U66564) RUSH-1alpha [Oryctolagus cuniculus]		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o2.tc	Method	TBLASTX:Cress
Start	2696	End	2992
GI	none	Score	103
Exons	2696..2992, 2856..2978		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o1.ts	Method	TBLASTX:Soybean
Start	2771	End	5548
GI	none	Score	65
Exons	2771..2992, 2862..2972, 2978..3157, 4979..5218, 5492..5548		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o3.tm	Method	TBLASTX:Maize
Start	3072	End	3342
GI	none	Score	201
Exons	3072..3230, 3073..3231, 3074..3253, 3080..3235, 3227..3340, 3227..3292, 3228..3341, 3229..3339, 3238..3342, 3267..3341		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o2.tm	Method	TBLASTX:Maize
Start	3342	End	4702
GI	none	Score	192
Exons	3342..3497, 3344..3502, 3344..3493, 4437..4604, 4457..4702, 4462..4683		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o4.tm	Method	TBLASTX:Maize
Start	4970	End	5308
GI	none	Score	56
Exons	4970..5194, 5213..5308		
Seq. No.	52820	Seq. ID	OJ990527_20.0419.C58
Gene No.	111466	Strand	-
Start	2681	End	5859
Name	OJ990527_20.0419.C58.o1.tc	Method	TBLASTX:Cress

Start	5075	End	5404
GI	none	Score	162
Exons	5075..5302, 5076..5303, 5265..5384, 5300..5401, 5300..5404		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111467	Strand	+
Start	3660	End	6065
Name	OJ990527_20.0419.C59.o2.np	Method	AAT/NAP
Start	3660	End	6065
GI	7523487	Score	148
Exons	3660..3769, 4803..4963, 5114..5286, 5965..6065		
GI Descrip.	(AP001633) EST AU075835(R3655) corresponds to a region of the predicted gene.~Similar to Arabidopsis thaliana lipase mRNA (U38916) [Oryza sativa]		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111467	Strand	+
Start	3660	End	6065
Name	OJ990527_20.0419.C59.o2.gp	Method	AAT/GAP
Start	4646	End	5239
GI	53758_1.R1084	Score	856
Exons	4646..4962, 5065..5239		
GI Descrip.	'4314378/gb\|AAD15588\| 9.0e-13 (AC006232) putative lipase [Arabidopsis thaliana] >gi_5306262_gb_AAD41994.1_AC006233_5 (AC006233) putative lipase [Arabidopsis thaliana]'		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111467	Strand	+
Start	3660	End	6065
Name	OJ990527_20.0419.C59.o2.gs	Method	GENSCAN
Start	4665	End	5291
GI	none	Score	.61
Exons	4665..4962, 5065..5291		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111468	Strand	-
Start	1557	End	4230
Name	OJ990527_20.0419.C59.o1.gp	Method	AAT/GAP
Start	1153	End	3592
GI	11881_1.R1084	Score	1447
Exons	1153..1218, 1389..1679, 2003..2186, 2359..2458, 3218..3315, 3411..3592		
GI Descrip.	'2791806 2.0e-51 (AF041433) bet3 [Mus musculus]'		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111468	Strand	-
Start	1557	End	4230
Name	OJ990527_20.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	1551	End	3453
GI	none	Score	159
Exons	1551..1679, 1553..1681, 1559..1675, 1569..1679, 1976..2152, 2000..2146, 2001..2153, 2001..2168, 2002..2169, 2137..2187, 2156..2188, 2157..2189, 2356..2457, 2357..2461, 3172..3333, 3256..3315, 3412..3453, 3429..3452		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111468	Strand	-

Start	1557	End	4230
Name	OJ990527_20.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	1556	End	3465
GI	none	Score	90
Exons	1556..1654, 1557..1673, 1569..1679, 1976..2152, 2000..2146, 2001..2150, 2020..2154, 2155..2187, 2322..2459, 2356..2457, 2357..2461, 2357..2464, 3217..3315, 3256..3315, 3412..3465, 3429..3464		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111468	Strand	-
Start	1557	End	4230
Name	OJ990527_20.0419.C59.o1.gs	Method	GENSCAN
Start	1557	End	3765
GI	none	Score	.85
Exons	1557..1679, 2359..2458, 3218..3315, 3411..3593, 3614..3636, 3669..3765		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111468	Strand	-
Start	1557	End	4230
Name	OJ990527_20.0419.C59.o1.np	Method	AAT/NAP
Start	1563	End	4230
GI	7304929	Score	391
Exons	1563..1679, 2003..2186, 2359..2458, 3218..3315, 4189..4230		
GI Descrip.	similar to yeast BET3 (S. cerevisiae) gi\|2791806\|gb\|AAB96937.1\| (AF041433) bet3 [Mus musculus]		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111469	Strand	
Start	4784	End	5279
Name	OJ990527_20.0419.C59.o2.tm	Method	TBLASTX:Maize
Start	4784	End	5192
GI	none	Score	170
Exons	4784..4846, 4785..4967, 4880..4960, 5066..5176, 5067..5192		

Seq. No.	52821	Seq. ID	OJ990527_20.0419.C59
Gene No.	111469	Strand	
Start	4784	End	5279
Name	OJ990527_20.0419.C59.o2.ts	Method	TBLASTX:Soybean
Start	4797	End	5279
GI	none	Score	75
Exons	4797..4877, 4814..4891, 4889..4957, 4890..4970, 5067..5114, 5075..5101, 5115..5279, 5132..5251		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111470	Strand	+
Start	1	End	308
Name	OJ990527_20.0419.C60.o1.np	Method	AAT/NAP
Start	1	End	302
GI	7523487	Score	233
Exons	1..302		
GI Descrip.	(AP001633) EST AU075835(R3655) corresponds to a region of the predicted gene.~Similar to Arabidopsis thaliana lipase mRNA (U38916) [Oryza sativa]		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60

Gene No.	111470	Strand	+
Start	1	End	308
Name	OJ990527_20.0419.C60.o1.gs	Method	GENSCAN
Start	51	End	308
GI	none	Score	1
Exons	51..308		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111471	Strand	-
Start	1	End	378
Name	OJ990527_20.0419.C60.o1.gp	Method	AAT/GAP
Start	1	End	378
GI	56595_1.R1084	Score	732
Exons	1..378		
GI Descrip.	'4314378/gb\|AAD15588\| 2.0e-21 (AC006232) putative lipase [Arabidopsis thaliana] >gi_5306262_gb_AAD41994.1_AC006233_5 (AC006233) putative lipase [Arabidopsis thaliana]'		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111471	Strand	-
Start	1	End	378
Name	OJ990527_20.0419.C60.o1.tc	Method	TBLASTX:Cress
Start	6	End	296
GI	none	Score	81
Exons	6..122, 96..296		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111471	Strand	-
Start	1	End	378
Name	OJ990527_20.0419.C60.o1.tw	Method	TBLASTX:Wheat
Start	6	End	369
GI	none	Score	52
Exons	6..116, 110..298, 111..287, 250..369		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111471	Strand	-
Start	1	End	378
Name	OJ990527_20.0419.C60.o1.tm	Method	TBLASTX:Maize
Start	6	End	263
GI	none	Score	242
Exons	6..263, 68..262		

Seq. No.	52822	Seq. ID	OJ990527_20.0419.C60
Gene No.	111471	Strand	-
Start	1	End	378
Name	OJ990527_20.0419.C60.o1.ts	Method	TBLASTX:Soybean
Start	6	End	296
GI	none	Score	76
Exons	6..122, 90..296, 95..277		

Seq. No.	52823	Seq. ID	OJ990527_20.0419.C61
Gene No.	111472	Strand	+
Start	112	End	1023
Name	OJ990527_20.0419.C61.o1.gs	Method	GENSCAN
Start	112	End	1023
GI	none	Score	.54
Exons	112..193, 269..342, 473..623, 717..1023		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111473	Strand	+
Start	6756	End	10858
Name	OJ990527_20.0419.C63.o1.np	Method	AAT/NAP
Start	6756	End	10858
GI	2961349	Score	1114
Exons	6756..6798, 8561..8778, 8818..9730, 10103..10858		
GI Descrip.	(AL022140) LTR retrotransposon like protein [Arabidopsis thaliana]		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111473	Strand	+
Start	6756	End	10858
Name	OJ990527_20.0419.C63.o2.gp	Method	AAT/GAP
Start	7680	End	7825
GI	3758977	Score	225
Exons	7680..7825		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111473	Strand	+
Start	6756	End	10858
Name	OJ990527_20.0419.C63.o3.gp	Method	AAT/GAP
Start	10465	End	10701
GI	1621492	Score	470
Exons	10465..10701		
GI Descrip.	1621493/dbj\|BAA12902\| 4.0e-42 (D85876) reverse transcriptase [Oryza sativa]		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111474	Strand	-
Start	1172	End	1692
Name	OJ990527_20.0419.C63.o1.tc	Method	TBLASTX:Cress
Start	590	End	1129
GI	none	Score	81
Exons	590..775, 597..668, 752..871, 798..869, 945..980, 1103..1129		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111474	Strand	-
Start	1172	End	1692
Name	OJ990527_20.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	590	End	878
GI	none	Score	112
Exons	590..877, 594..668, 661..837, 708..878		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111474	Strand	-
Start	1172	End	1692
Name	OJ990527_20.0419.C63.o2.ts	Method	TBLASTX:Soybean
Start	593	End	871
GI	none	Score	55
Exons	593..871, 615..668, 714..869		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111474	Strand	-
Start	1172	End	1692
Name	OJ990527_20.0419.C63.o1.gp	Method	AAT/GAP

Start	1172	End	1692
GI	uC-osroM202029b02b1	Score	939
Exons	1172..1692		
GI Descrip.	'1621493/dbj\|BAA12902\| 4.0e-42 (D85876) reverse transcriptase [Oryza sativa]'		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111475	Strand	
Start	8356	End	8774
Name	OJ990527_20.0419.C63.o3.tw	Method	TBLASTX:Wheat
Start	8356	End	8742
GI	none	Score	109
Exons	8356..8550, 8403..8450, 8554..8742, 8559..8708		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111475	Strand	
Start	8356	End	8774
Name	OJ990527_20.0419.C63.o4.tm	Method	TBLASTX:Maize
Start	8530	End	8774
GI	none	Score	258
Exons	8530..8742, 8530..8769, 8532..8774		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675
Name	OJ990527_20.0419.C63.o5.tm	Method	TBLASTX:Maize
Start	8799	End	8988
GI	none	Score	210
Exons	8799..8978, 8815..8964, 8903..8980, 8905..8988		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675
Name	OJ990527_20.0419.C63.o4.ts	Method	TBLASTX:Soybean
Start	8815	End	9210
GI	none	Score	185
Exons	8815..9210		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675
Name	OJ990527_20.0419.C63.o2.tw	Method	TBLASTX:Wheat
Start	8998	End	9612
GI	none	Score	288
Exons	8998..9444, 9517..9612		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675
Name	OJ990527_20.0419.C63.o2.tm	Method	TBLASTX:Maize
Start	9040	End	9672
GI	none	Score	78
Exons	9040..9105, 9106..9672, 9254..9304, 9297..9419		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675

Name	OJ990527_20.0419.C63.o3.ts	Method	TBLASTX:Soybean
Start	9214	End	9675
GI	none	Score	308
Exons	9214..9675, 9297..9521, 9579..9614		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111476	Strand	
Start	8799	End	9675
Name	OJ990527_20.0419.C63.o2.tc	Method	TBLASTX:Cress
Start	9232	End	9675
GI	none	Score	289
Exons	9232..9675, 9495..9665		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111477	Strand	
Start	10120	End	10827
Name	OJ990527_20.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	10120	End	10620
GI	5509260	Score	321
Exons	10120..10530, 10143..10385, 10449..10529, 10528..10593, 10531..10620		
GI Descrip.	-		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111477	Strand	
Start	10120	End	10827
Name	OJ990527_20.0419.C63.o3.tc	Method	TBLASTX:Cress
Start	10252	End	10512
GI	none	Score	287
Exons	10252..10512, 10257..10424		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111477	Strand	
Start	10120	End	10827
Name	OJ990527_20.0419.C63.o1.tw	Method	TBLASTX:Wheat
Start	10293	End	10827
GI	none	Score	223
Exons	10293..10535, 10294..10536, 10540..10632, 10627..10827, 10704..10820		

Seq. No.	52824	Seq. ID	OJ990527_20.0419.C63
Gene No.	111477	Strand	
Start	10120	End	10827
Name	OJ990527_20.0419.C63.o3.tm	Method	TBLASTX:Maize
Start	10293	End	10719
GI	none	Score	219
Exons	10293..10526, 10294..10524, 10506..10607, 10522..10719		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111478	Strand	+
Start	1	End	6977
Name	OJ990527_20.0419.C64.o1.gp	Method	AAT/GAP
Start	1	End	189
GI	426372	Score	332
Exons	1..189		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64

Gene No.	111478	Strand	+
Start	1	End	6977
Name	OJ990527_20.0419.C64.o1.np	Method	AAT/NAP
Start	1	End	1898
GI	7486142	Score	235
Exons	1..342, 1842..1898		
GI Descrip.	hypothetical protein F25I24.200 - Arabidopsis thaliana gi\|4539373\|emb\|CAB40067.1\| (AL049525) putative retrotransposon polyprotein [Arabidopsis thaliana] gi\|7267797\|emb\|CAB81200.1\| (AL161518) putative retrotransposon polyprotein [Arabidopsis thaliana]		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111478	Strand	+
Start	1	End	6977
Name	OJ990527_20.0419.C64.o1.gs	Method	GENSCAN
Start	105	End	6977
GI	none	Score	.46
Exons	105..385, 1478..1642, 2395..2595, 3574..3664, 5239..5430, 6472..6574, 6608..6977		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111478	Strand	+
Start	1	End	6977
Name	OJ990527_20.0419.C64.o2.gp	Method	AAT/GAP
Start	238	End	551
GI	3758977	Score	538
Exons	238..551		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111479	Strand	-
Start	4448	End	6807
Name	OJ990527_20.0419.C64.o2.ts	Method	TBLASTX:Soybean
Start	1	End	340
GI	none	Score	197
Exons	1..261, 2..340		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111479	Strand	-
Start	4448	End	6807
Name	OJ990527_20.0419.C64.o2.tm	Method	TBLASTX:Maize
Start	2	End	337
GI	none	Score	96
Exons	2..142, 164..337		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111479	Strand	-
Start	4448	End	6807
Name	OJ990527_20.0419.C64.o1.tm	Method	TBLASTX:Maize
Start	3182	End	6756
GI	none	Score	153
Exons	3182..3301, 3183..3302, 3185..3301, 4428..4556, 4428..4550, 4448..4555, 4450..4557, 4451..4573, 4698..4817, 4713..4817, 4714..4830, 4904..4969, 4917..4970, 4918..4977, 5187..5285, 5192..5332, 5218..5298, 5368..5493, 5369..5482, 5370..5489, 5371..5490, 6523..6603, 6525..6596, 6527..6628, 6713..6748, 6715..6756		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111479	Strand	-
Start	4448	End	6807
Name	OJ990527_20.0419.C64.o2.np	Method	AAT/NAP
Start	4448	End	6807
GI	7460191	Score	291
Exons	4448..4519, 4701..4813, 5370..5471, 6528..6595, 6713..6807		
GI Descrip.	hypothetical protein F12C20.15 - Arabidopsis thaliana gi\|3426045\|gb\|AAC32244.1\| (AC005168) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52825	Seq. ID	OJ990527_20.0419.C64
Gene No.	111479	Strand	-
Start	4448	End	6807
Name	OJ990527_20.0419.C64.o1.ts	Method	TBLASTX:Soybean
Start	5192	End	5493
GI	none	Score	135
Exons	5192..5287, 5368..5493		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111480	Strand	+
Start	1	End	1142
Name	OJ990527_20.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	1142
GI	7443827	Score	243
Exons	1..249, 1106..1142		
GI Descrip.	probable chaperonin 10 - rice gi\|2267597\|gb\|AAB63591.1\| (AF009413) 10 kDa chaperonin [Oryza sativa]		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111480	Strand	+
Start	1	End	1142
Name	OJ990527_20.0419.C65.o1.gp	Method	AAT/GAP
Start	104	End	1142
GI	754_1.R1084	Score	320
Exons	104..249, 1106..1142		
GI Descrip.	'2267597 5.0e-46 (AF009413) 10 kDa chaperonin [Oryza sativa]'		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111481	Strand	-
Start	65	End	1142
Name	OJ990527_20.0419.C65.o1.gs	Method	GENSCAN
Start	65	End	1127
GI	none	Score	.57
Exons	65..206, 789..943, 1071..1127		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111481	Strand	-
Start	65	End	1142
Name	OJ990527_20.0419.C65.o1.ts	Method	TBLASTX:Soybean
Start	96	End	240
GI	none	Score	181
Exons	96..236, 103..240, 104..235		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111481	Strand	-

Start	65	End	1142
Name	OJ990527_20.0419.C65.o1.tm	Method	TBLASTX:Maize
Start	97	End	1142
GI	none	Score	166
Exons	97..252, 104..256, 106..252, 1098..1142, 1106..1141		

Seq. No.	52826	Seq. ID	OJ990527_20.0419.C65
Gene No.	111481	Strand	-
Start	65	End	1142
Name	OJ990527_20.0419.C65.o1.tc	Method	TBLASTX:Cress
Start	104	End	256
GI	none	Score	199
Exons	104..256, 106..234		

Seq. No.	52827	Seq. ID	OJ990527_20.0419.C66
Gene No.	111482	Strand	-
Start	819	End	1546
Name	OJ990527_20.0419.C66.o1.gp	Method	AAT/GAP
Start	541	End	1546
GI	none	Score	808
Exons	541..884, 972..1031, 1495..1546		

Seq. No.	52827	Seq. ID	OJ990527_20.0419.C66
Gene No.	111482	Strand	-
Start	819	End	1546
Name	OJ990527_20.0419.C66.o1.gs	Method	GENSCAN
Start	819	End	1535
GI	none	Score	.72
Exons	819..884, 1495..1535		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111483	Strand	+
Start	567	End	2297
Name	OJ990527_20.0419.C67.o1.gs	Method	GENSCAN
Start	567	End	2297
GI	none	Score	.9
Exons	567..585, 1610..1710, 1759..1914, 2076..2297		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111484	Strand	+
Start	4041	End	4676
Name	OJ990527_20.0419.C67.o2.gp	Method	AAT/GAP
Start	4041	End	4676
GI	none	Score	686
Exons	4041..4071, 4207..4676		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111485	Strand	-
Start	1585	End	2104
Name	OJ990527_20.0419.C67.o1.gp	Method	AAT/GAP
Start	1585	End	2104
GI	none	Score	935
Exons	1585..2104		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111486	Strand	-
Start	3364	End	4018

Name	OJ990527_20.0419.C67.o2.gs	Method	GENSCAN
Start	3364	End	4018
GI	none	Score	.62
Exons	3364..3642, 3791..4018		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111487	Strand	-
Start	5799	End	11904
Name	OJ990527_20.0419.C67.o3.gs	Method	GENSCAN
Start	5799	End	11904
GI	none	Score	.71
Exons	5799..5986, 6638..6794, 6832..7121, 7282..7466, 9936..10015, 10254..10833, 10916..11070, 11152..11222, 11541..11677, 11807..11904		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111487	Strand	-
Start	5799	End	11904
Name	OJ990527_20.0419.C67.o3.gp	Method	AAT/GAP
Start	9447	End	10159
GI	none	Score	833
Exons	9447..9681, 9778..9852, 9936..10015, 10083..10159		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111488	Strand	-
Start	12722	End	13481
Name	OJ990527_20.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	12062	End	12507
GI	none	Score	66
Exons	12062..12256, 12112..12267, 12364..12507		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111488	Strand	-
Start	12722	End	13481
Name	OJ990527_20.0419.C67.o4.gs	Method	GENSCAN
Start	12722	End	13474
GI	none	Score	.71
Exons	12722..13474		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111488	Strand	-
Start	12722	End	13481
Name	OJ990527_20.0419.C67.o2.np	Method	AAT/NAP
Start	12755	End	13481
GI	7106515	Score	531
Exons	12755..13355, 13421..13481		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	52828	Seq. ID	OJ990527_20.0419.C67
Gene No.	111488	Strand	-
Start	12722	End	13481
Name	OJ990527_20.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	12932	End	13114
GI	none	Score	69
Exons	12932..13114, 12936..13112		

Seq. No.	52829	Seq. ID	OJ990527_20.0419.C68
Gene No.	111489	Strand	+
Start	304	End	434
Name	OJ990527_20.0419.C68.o1.gs	Method	GENSCAN
Start	304	End	434
GI	none	Score	.46
Exons	304..434		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111490	Strand	+
Start	1	End	314
Name	OJ990617_12.0420.C1.o1.np	Method	AAT/NAP
Start	1	End	308
GI	7523511	Score	262
Exons	1..308		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F10A12 genomic sequence; putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111490	Strand	+
Start	1	End	314
Name	OJ990617_12.0420.C1.o1.gs	Method	GENSCAN
Start	97	End	314
GI	none	Score	.67
Exons	97..314		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111491	Strand	-
Start	96	End	607
Name	OJ990617_12.0420.C1.o1.ts	Method	TBLASTX:Soybean
Start	90	End	323
GI	none	Score	202
Exons	90..323, 191..295		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111491	Strand	-
Start	96	End	607
Name	OJ990617_12.0420.C1.o1.gp	Method	AAT/GAP
Start	96	End	607
GI	1794_1.R1084	Score	975
Exons	96..607		
GI Descrip.	'5734634/dbj\|BAA83365.1\| 4.0e-10 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111491	Strand	-
Start	96	End	607
Name	OJ990617_12.0420.C1.o1.tm	Method	TBLASTX:Maize
Start	96	End	320
GI	none	Score	380
Exons	96..320, 190..315, 191..319		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111491	Strand	-

Start	96	End	607
Name	OJ990617_12.0420.C1.o1.tc	Method	TBLASTX:Cress
Start	96	End	299
GI	none	Score	191
Exons	96..299, 200..298		

Seq. No.	52830	Seq. ID	OJ990617_12.0420.C1
Gene No.	111491	Strand	-
Start	96	End	607
Name	OJ990617_12.0420.C1.o1.tw	Method	TBLASTX:Wheat
Start	102	End	308
GI	none	Score	240
Exons	102..308, 191..283		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.np	Method	AAT/NAP
Start	1	End	985
GI	7523511	Score	488
Exons	1..311, 774..985		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F10A12 genomic sequence; putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	4	End	970
GI	none	Score	482
Exons	4..312, 5..313, 772..969, 773..970		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.tc	Method	TBLASTX:Cress
Start	8	End	964
GI	none	Score	88
Exons	8..148, 155..313, 772..963, 773..964		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.ts	Method	TBLASTX:Soybean
Start	8	End	274
GI	none	Score	209
Exons	8..274		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.gs	Method	GENSCAN
Start	59	End	988
GI	none	Score	.9
Exons	59..311, 774..988		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.tw	Method	TBLASTX:Wheat
Start	113	End	964
GI	none	Score	59
Exons	113..196, 197..313, 778..963,	779..964	

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o1.gp	Method	AAT/GAP
Start	139	End	1264
GI	28337_1.R1084	Score	1185
Exons	139..311, 774..1264		
GI Descrip.	'5734636/dbj\|BAA83367.1\| 2.0e-28 (AP000391) Similar to putative lipase (AC006232). [Oryza sativa]'		

Seq. No.	52831	Seq. ID	OJ990617_12.0420.C6
Gene No.	111492	Strand	+
Start	1	End	1264
Name	OJ990617_12.0420.C6.o2.ts	Method	TBLASTX:Soybean
Start	772	End	970
GI	none	Score	188
Exons	772..960, 773..970		

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274
Name	OJ990617_12.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	2274
GI	7228457	Score	3609
Exons	1..1100, 1167..2274		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274
Name	OJ990617_12.0420.C8.o1.tw	Method	TBLASTX:Wheat
Start	162	End	543
GI	none	Score	162
Exons	162..542, 193..438, 201..539,	487..543	

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274
Name	OJ990617_12.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	318	End	680
GI	none	Score	207
Exons	318..365, 357..680, 370..651		

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274

Name	OJ990617_12.0420.C8.o3.tw	Method	TBLASTX:Wheat
Start	873	End	1185
GI	none	Score	67
Exons	873..1133, 1009..1185		

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274
Name	OJ990617_12.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	933	End	1481
GI	5666795	Score	65
Exons	933..1133, 1188..1325, 1401..1481		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	52832	Seq. ID	OJ990617_12.0420.C8
Gene No.	111493	Strand	-
Start	1	End	2274
Name	OJ990617_12.0420.C8.o2.tw	Method	TBLASTX:Wheat
Start	1188	End	1621
GI	none	Score	88
Exons	1188..1337, 1189..1326, 1371..1484, 1372..1485, 1463..1621, 1485..1556		

Seq. No.	52833	Seq. ID	OJ990617_12.0420.C15
Gene No.	111494	Strand	-
Start	46	End	272
Name	OJ990617_12.0420.C15.o1.gs	Method	GENSCAN
Start	46	End	272
GI	none	Score	.66
Exons	46..272		

Seq. No.	52834	Seq. ID	OJ990617_12.0420.C17
Gene No.	111495	Strand	-
Start	540	End	653
Name	OJ990617_12.0420.C17.o1.gs	Method	GENSCAN
Start	540	End	653
GI	none	Score	.91
Exons	540..653		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111496	Strand	+
Start	1	End	2878
Name	OJ990617_12.0420.C18.o1.np	Method	AAT/NAP
Start	1	End	1877
GI	5734764	Score	154
Exons	1..66, 205..291, 385..623, 1809..1877		
GI Descrip.	(AC007651) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111496	Strand	+
Start	1	End	2878
Name	OJ990617_12.0420.C18.o1.gs	Method	GENSCAN
Start	226	End	2878
GI	none	Score	.93
Exons	226..291, 385..541, 625..718, 1811..1877, 2333..2878		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18

Gene No.	111497	Strand	-
Start	2766	End	3157
Name	OJ990617_12.0420.C18.o1.gp	Method	AAT/GAP
Start	2766	End	3157
GI	none	Score	598
Exons	2766..3157		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o1.ts	Method	TBLASTX:Soybean
Start	16	End	489
GI	none	Score	73
Exons	16..69, 208..303, 210..308, 385..489		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o2.tm	Method	TBLASTX:Maize
Start	198	End	2404
GI	none	Score	121
Exons	198..287, 202..303, 209..292, 385..474, 451..537, 468..536, 629..718, 630..719, 1654..1752, 1803..1877, 1803..1886, 1810..1890, 2300..2362, 2317..2403, 2330..2404		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o1.tm	Method	TBLASTX:Maize
Start	2461	End	2883
GI	none	Score	80
Exons	2461..2598, 2466..2654, 2477..2656, 2479..2655, 2645..2761, 2657..2734, 2659..2751, 2741..2878, 2745..2882, 2745..2882, 2746..2883, 2749..2883		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o2.gs	Method	GENSCAN
Start	3307	End	6863
GI	none	Score	.92
Exons	3307..3765, 4533..4782, 5066..5538, 6810..6863		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o1.tc	Method	TBLASTX:Cress
Start	3535	End	5535
GI	none	Score	59
Exons	3535..3600, 3649..3762, 5101..5148, 5239..5415, 5255..5401, 5381..5533, 5434..5535		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o3.tm	Method	TBLASTX:Maize
Start	5101	End	5547

GI	none	Score	60
Exons	5101..5148, 5239..5409, 5255..5407, 5420..5488, 5434..5547		

Seq. No.	52835	Seq. ID	OJ990617_12.0420.C18
Gene No.	111498	Strand	-
Start	3307	End	6863
Name	OJ990617_12.0420.C18.o2.ts	Method	TBLASTX:Soybean
Start	5257	End	5535
GI	none	Score	68
Exons	5257..5409, 5434..5535, 5435..5533		

Seq. No.	52836	Seq. ID	OJ990617_12.0420.C19
Gene No.	111499	Strand	-
Start	1	End	906
Name	OJ990617_12.0420.C19.o1.np	Method	AAT/NAP
Start	1	End	868
GI	7487877	Score	314
Exons	1..868		
GI Descrip.	hypothetical protein T9I4.20 - Arabidopsis thaliana gi\|3482941\|gb\|AAC33239.1\| (AC005315) putative ligand-gated ion channel protein [Arabidopsis thaliana]		

Seq. No.	52836	Seq. ID	OJ990617_12.0420.C19
Gene No.	111499	Strand	-
Start	1	End	906
Name	OJ990617_12.0420.C19.o1.gs	Method	GENSCAN
Start	11	End	906
GI	none	Score	.98
Exons	11..906		

Seq. No.	52836	Seq. ID	OJ990617_12.0420.C19
Gene No.	111499	Strand	-
Start	1	End	906
Name	OJ990617_12.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	118	End	621
GI	none	Score	124
Exons	118..360, 385..621		

Seq. No.	52837	Seq. ID	OJ990617_12.0420.C20
Gene No.	111500	Strand	-
Start	1	End	1506
Name	OJ990617_12.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	1492
GI	5091511	Score	102
Exons	1..84, 942..1186, 1250..1492		
GI Descrip.	(AB023482) Similar to Arabidopsis thaliana RING-H2 finger protein RHX1a mRNA, partial cds.(AF079184) [Oryza sativa]		

Seq. No.	52837	Seq. ID	OJ990617_12.0420.C20
Gene No.	111500	Strand	-
Start	1	End	1506
Name	OJ990617_12.0420.C20.o1.gs	Method	GENSCAN
Start	913	End	1506
GI	none	Score	.96
Exons	913..1506		

Seq. No.	52837	Seq. ID	OJ990617_12.0420.C20

Gene No.	111500	Strand	-
Start	1	End	1506
Name	OJ990617_12.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	958	End	1107
GI	none	Score	74
Exons	958..1107, 959..1078, 988..1080		

Seq. No.	52838	Seq. ID	OJ990617_12.0420.C25
Gene No.	111501	Strand	+
Start	172	End	408
Name	OJ990617_12.0420.C25.o1.gs	Method	GENSCAN
Start	172	End	408
GI	none	Score	.5
Exons	172..408		

Seq. No.	52838	Seq. ID	OJ990617_12.0420.C25
Gene No.	111502	Strand	-
Start	1037	End	1494
Name	OJ990617_12.0420.C25.o1.tm	Method	TBLASTX:Maize
Start	265	End	411
GI	none	Score	186
Exons	265..411, 270..404		

Seq. No.	52838	Seq. ID	OJ990617_12.0420.C25
Gene No.	111502	Strand	-
Start	1037	End	1494
Name	OJ990617_12.0420.C25.o2.gs	Method	GENSCAN
Start	1037	End	1486
GI	none	Score	.99
Exons	1037..1486		

Seq. No.	52838	Seq. ID	OJ990617_12.0420.C25
Gene No.	111502	Strand	-
Start	1037	End	1494
Name	OJ990617_12.0420.C25.o1.np	Method	AAT/NAP
Start	1040	End	1494
GI	6539586	Score	744
Exons	1040..1494		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	52839	Seq. ID	OJ990617_12.0420.C26
Gene No.	111503	Strand	+
Start	4636	End	7244
Name	OJ990617_12.0420.C26.o3.np	Method	AAT/NAP
Start	4636	End	7244
GI	7340909	Score	146
Exons	4636..4696, 4892..5093, 6079..6471, 7091..7244		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52839	Seq. ID	OJ990617_12.0420.C26
Gene No.	111504	Strand	-
Start	1	End	2398
Name	OJ990617_12.0420.C26.o1.np	Method	AAT/NAP
Start	1	End	1483
GI	6907089	Score	2357
Exons	1..127, 222..1483		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52839	Seq. ID	OJ990617_12.0420.C26
Gene No.	111504	Strand	-
Start	1	End	2398
Name	OJ990617_12.0420.C26.o2.np	Method	AAT/NAP
Start	1	End	2398
GI	5922623	Score	214
Exons	1..93, 1516..1589, 1757..1877, 2291..2398		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52839	Seq. ID	OJ990617_12.0420.C26
Gene No.	111504	Strand	-
Start	1	End	2398
Name	OJ990617_12.0420.C26.o1.gs	Method	GENSCAN
Start	222	End	1483
GI	none	Score	.9
Exons	222..1483		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111505	Strand	+
Start	269	End	371
Name	OJ990617_12.0420.C30.o1.gp	Method	AAT/GAP
Start	269	End	371
GI	5867_1.R1084	Score	141
Exons	269..371		
GI Descrip.	'464986/sp\|P35132\|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111506	Strand	+
Start	3574	End	4343
Name	OJ990617_12.0420.C30.o2.gs	Method	GENSCAN
Start	3574	End	4343
GI	none	Score	.49
Exons	3574..3736, 4057..4107, 4273..4343		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111507	Strand	+
Start	4873	End	7233
Name	OJ990617_12.0420.C30.o2.gp	Method	AAT/GAP
Start	4811	End	7233
GI	1794_1.R1084	Score	2826
Exons	4811..5125, 5212..5421, 5512..5934, 6723..7233		
GI Descrip.	'5734634/dbj\|BAA83365.1\| 4.0e-10 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111507	Strand	+
Start	4873	End	7233
Name	OJ990617_12.0420.C30.o3.gs	Method	GENSCAN

Start	4873	End	6940
GI	none	Score	.9
Exons	4873..5214, 5250..5421, 5512..5934, 6723..6940		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111507	Strand	+
Start	4873	End	7233
Name	OJ990617_12.0420.C30.o1.np	Method	AAT/NAP
Start	4891	End	6934
GI	7523511	Score	1135
Exons	4891..5125, 5212..5421, 5512..5934, 6723..6934		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F10A12 genomic sequence; putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111508	Strand	-
Start	489	End	788
Name	OJ990617_12.0420.C30.o1.gs	Method	GENSCAN
Start	489	End	788
GI	none	Score	.47
Exons	489..788		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o3.gp	Method	AAT/GAP
Start	7967	End	8430
GI	4714605	Score	838
Exons	7967..8430		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o4.gs	Method	GENSCAN
Start	8354	End	12631
GI	none	Score	.83
Exons	8354..8448, 8839..8981, 9580..9693, 11093..11192, 11292..11374, 11448..11600, 12534..12631		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o2.np	Method	AAT/NAP
Start	8357	End	15710
GI	7487205	Score	668
Exons	8357..8448, 8839..8981, 11093..11192, 11292..11374, 11448..11600, 12534..12813, 15564..15710		
GI Descrip.	hypothetical protein T19L18.9 - Arabidopsis thaliana gi\|3413704\|gb\|AAC31227.1\| (AC004747) unknown protein [Arabidopsis thaliana]		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o4.gp	Method	AAT/GAP

Start	8860	End	11192
GI	4714604	Score	644
Exons	8860..8981, 9580..9693, 11093..11192		
GI Descrip.	3413704 2.0e-24 (AC004747) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o5.gs	Method	GENSCAN
Start	14140	End	14568
GI	none	Score	.99
Exons	14140..14568		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o6.gs	Method	GENSCAN
Start	14909	End	16504
GI	none	Score	.94
Exons	14909..15126, 15226..15523, 15623..15765, 15876..16100, 16180..16504		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o4.np	Method	AAT/NAP
Start	14915	End	16486
GI	7523511	Score	931
Exons	14915..15116, 15216..15523, 15623..15775, 15895..16100, 16180..16354, 16401..16486		
GI Descrip.	(AP001633) ESTs AU032777(S14085),C23613(S14085) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F10A12 genomic sequence; putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111509	Strand	-
Start	8354	End	16504
Name	OJ990617_12.0420.C30.o5.gp	Method	AAT/GAP
Start	16165	End	16409
GI	1632101	Score	339
Exons	16165..16409		
GI Descrip.	5734634/dbj\|BAA83365.1\| 4.0e-10 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o1.tc	Method	TBLASTX:Cress
Start	4954	End	16357
GI	none	Score	59
Exons	4954..5007, 5053..5124, 5223..5243, 5511..5777, 5778..5954, 6722..6925, 6826..6924, 14927..15124, 14928..15107, 15224..15292, 15333..15407, 15413..15520, 15859..15954, 15967..16041, 16069..16101, 16175..16252, 16307..16357		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o4.tw	Method	TBLASTX:Wheat
Start	4954	End	16357
GI	none	Score	215
Exons	4954..5124, 4960..5064, 4974..5123, 16172..16270, 16173..16271, 16298..16357, 16299..16355		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o1.tm	Method	TBLASTX:Maize
Start	4954	End	16421
GI	none	Score	292
Exons	4954..5124, 4960..5064, 4974..5123, 5214..5420, 5216..5416, 5498..5644, 5511..5936, 5511..5660, 5597..5935, 6722..6946, 6817..6945, 14900..15082, 14900..15124, 14919..15107, 15224..15289, 15317..15529, 15322..15378, 15447..15524, 15611..15823, 15618..15776, 15892..15957, 15892..16044, 15914..16045, 16063..16089, 16181..16270, 16182..16268, 16295..16357, 16302..16421		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o5.ts	Method	TBLASTX:Soybean
Start	4960	End	16354
GI	none	Score	146
Exons	4960..5124, 4974..5021, 5046..5120, 5220..5264, 5262..5360, 15931..16101, 16175..16291, 16307..16354		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o1.tw	Method	TBLASTX:Wheat
Start	5198	End	16095
GI	none	Score	236
Exons	5198..5419, 5214..5417, 5508..5621, 5511..5591, 5578..5619, 15656..15775, 15690..15776, 15892..15957, 15892..16056, 15914..16060, 16063..16095		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o1.ts	Method	TBLASTX:Soybean
Start	5508	End	15712
GI	none	Score	284
Exons	5508..5897, 15266..15286, 15365..15529, 15611..15712		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o4.ts	Method	TBLASTX:Soybean
Start	6716	End	15124
GI	none	Score	202
Exons	6716..6949, 14921..15124, 14925..15092, 15087..15110		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o2.tw	Method	TBLASTX:Wheat
Start	6728	End	15448
GI	none	Score	240
Exons	6728..6934, 6817..6909, 14915..15112, 14916..15101, 15365..15448		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o4.tm	Method	TBLASTX:Maize
Start	8240	End	9694
GI	none	Score	34
Exons	8240..8272, 8328..8381, 8361..8450, 8362..8451, 8369..8449, 8836..8982, 8838..8984, 8838..8984, 8846..8986, 9580..9693, 9581..9694, 9581..9694		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o3.tc	Method	TBLASTX:Cress
Start	9630	End	11373
GI	none	Score	69
Exons	9630..9692, 11092..11193, 11092..11193, 11093..11194, 11293..11373		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o2.ts	Method	TBLASTX:Soybean
Start	11069	End	12656
GI	none	Score	105
Exons	11069..11194, 11092..11193, 11293..11433, 11313..11378, 11447..11593, 11447..11602, 11529..11597, 12519..12656, 12530..12655		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o2.tm	Method	TBLASTX:Maize
Start	11092	End	12617
GI	none	Score	144
Exons	11092..11193, 11093..11194, 11286..11378, 11289..11372, 11291..11374, 11293..11448, 11293..11448, 11446..11598, 11446..11598, 11447..11599, 11447..11602, 12519..12617, 12530..12616		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o3.ts	Method	TBLASTX:Soybean
Start	14221	End	14448
GI	none	Score	71
Exons	14221..14448, 14255..14389		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o2.tc	Method	TBLASTX:Cress
Start	14224	End	14448
GI	none	Score	77
Exons	14224..14448, 14255..14389		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o3.tw	Method	TBLASTX:Wheat
Start	14224	End	14388
GI	none	Score	98
Exons	14224..14388, 14252..14386		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o3.tm	Method	TBLASTX:Maize
Start	14224	End	14421
GI	none	Score	83
Exons	14224..14421, 14255..14386		

Seq. No.	52840	Seq. ID	OJ990617_12.0420.C30
Gene No.	111510	Strand	-
Start	19516	End	19746
Name	OJ990617_12.0420.C30.o6.gp	Method	AAT/GAP
Start	19516	End	19746
GI	28337_1.R1084	Score	440
Exons	19516..19746		
GI Descrip.	'5734636/dbj\|BAA83367.1\| 2.0e-28 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52841	Seq. ID	OJ990617_12.0420.C31
Gene No.	111511	Strand	-
Start	1	End	117
Name	OJ990617_12.0420.C31.o1.gp	Method	AAT/GAP
Start	1	End	117
GI	42788_1.R1084	Score	190
Exons	1..117		
GI Descrip.	'5734634/dbj\|BAA83365.1\| 3.0e-44 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	52841	Seq. ID	OJ990617_12.0420.C31
Gene No.	111512	Strand	-
Start	271	End	372
Name	OJ990617_12.0420.C31.o1.gs	Method	GENSCAN
Start	271	End	372
GI	none	Score	.69
Exons	271..372		

Seq. No.	52842	Seq. ID	OJ990617_12.0420.C32
Gene No.	111513	Strand	+
Start	608	End	656
Name	OJ990617_12.0420.C32.o1.gs	Method	GENSCAN
Start	608	End	656

GI	none	Score	.6
Exons	608..656		

Seq. No.	52842	Seq. ID	OJ990617_12.0420.C32
Gene No.	111514	Strand	-
Start	729	End	1101
Name	OJ990617_12.0420.C32.o1.gp	Method	AAT/GAP
Start	729	End	1101
GI	none	Score	731
Exons	729..1101		

Seq. No.	52843	Seq. ID	OJ990617_12.0420.C33
Gene No.	111515	Strand	+
Start	1209	End	2280
Name	OJ990617_12.0420.C33.o1.gs	Method	GENSCAN
Start	1209	End	2280
GI	none	Score	.42
Exons	1209..1470, 1705..1799, 2131..2280		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111516	Strand	+
Start	235	End	1393
Name	OJ990617_12.0420.C34.o1.gs	Method	GENSCAN
Start	235	End	1393
GI	none	Score	.7
Exons	235..545, 567..629, 734..898, 1267..1393		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111516	Strand	+
Start	235	End	1393
Name	OJ990617_12.0420.C34.o1.np	Method	AAT/NAP
Start	235	End	1390
GI	7523515	Score	553
Exons	235..629, 731..898, 1234..1390		
GI Descrip.	(AP001633) ESTs AU083470(E11568),C20136(E11568) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F16M14 genomic sequence; unknown protein (AC003028) [Oryza sativa]		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-
Start	7810	End	11892
Name	OJ990617_12.0420.C34.o1.tc	Method	TBLASTX:Cress
Start	231	End	540
GI	none	Score	199
Exons	231..377, 232..378, 448..540		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-
Start	7810	End	11892
Name	OJ990617_12.0420.C34.o1.tm	Method	TBLASTX:Maize
Start	231	End	378
GI	none	Score	245
Exons	231..374, 238..378		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-

Start	7810	End	11892
Name	OJ990617_12.0420.C34.o1.ts	Method	TBLASTX:Soybean
Start	234	End	1381
GI	none	Score	185
Exons	234..377, 235..378, 448..648, 762..899, 764..898, 1232..1381		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-
Start	7810	End	11892
Name	OJ990617_12.0420.C34.o2.tm	Method	TBLASTX:Maize
Start	825	End	1395
GI	none	Score	126
Exons	825..899, 827..898, 836..931, 1228..1395, 1232..1390		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-
Start	7810	End	11892
Name	OJ990617_12.0420.C34.o3.gs	Method	GENSCAN
Start	7810	End	11892
GI	none	Score	.79
Exons	7810..7937, 8497..8692, 8756..9019, 9499..9719, 10196..10693, 10769..10800, 11778..11892		

Seq. No.	52844	Seq. ID	OJ990617_12.0420.C34
Gene No.	111517	Strand	-
Start	7810	End	11892
Name	OJ990617_12.0420.C34.o2.gp	Method	AAT/GAP
Start	8932	End	10344
GI	2428499	Score	842
Exons	8932..9019, 9498..9719, 10196..10344		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111518	Strand	+
Start	1	End	2626
Name	OJ990617_12.0420.C35.o1.np	Method	AAT/NAP
Start	1	End	2626
GI	6069646	Score	467
Exons	1..42, 1468..2267, 2554..2626		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111518	Strand	+
Start	1	End	2626
Name	OJ990617_12.0420.C35.o1.gs	Method	GENSCAN
Start	159	End	2008
GI	none	Score	.5
Exons	159..354, 726..753, 1501..1683, 1946..2008		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111519	Strand	-
Start	3170	End	3451
Name	OJ990617_12.0420.C35.o2.gs	Method	GENSCAN
Start	3170	End	3451

GI	none	Score	.51
Exons	3170..3451		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o7.tm	Method	TBLASTX:Maize
Start	913	End	1143
GI	none	Score	183
Exons	913..1143, 915..1142		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o1.tm	Method	TBLASTX:Maize
Start	1453	End	1869
GI	none	Score	404
Exons	1453..1869, 1455..1868		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o6.tm	Method	TBLASTX:Maize
Start	1873	End	2329
GI	none	Score	79
Exons	1873..1959, 2036..2329, 2119..2319, 2126..2320		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o1.tw	Method	TBLASTX:Wheat
Start	2129	End	2573
GI	none	Score	181
Exons	2129..2329, 2164..2319, 2412..2573, 2436..2531		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o3.gs	Method	GENSCAN
Start	4865	End	10109
GI	none	Score	.82
Exons	4865..4907, 5272..5337, 6370..6668, 6781..6900, 6985..7161, 7618..7853, 7974..8136, 8850..9041, 9159..9309, 9437..9651, 9735..10109		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o4.tm	Method	TBLASTX:Maize
Start	6245	End	6870
GI	none	Score	41
Exons	6245..6274, 6357..6671, 6370..6399, 6499..6669, 6500..6694, 6527..6703, 6781..6816, 6796..6870		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395

Name	OJ990617_12.0420.C35.o1.ts	Method	TBLASTX:Soybean
Start	6366	End	9869
GI	none	Score	36
Exons	6366..6395, 6367..6396, 6420..6671, 6502..6669, 6779..6808, 6780..6833, 6985..7119, 6985..7161, 7720..7869, 7972..8139, 7973..8137, 8850..9047, 8857..9042, 8906..9049, 9156..9311, 9156..9311, 9161..9313, 9436..9645, 9437..9646, 9744..9869, 9745..9831		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o2.np	Method	AAT/NAP
Start	6369	End	10395
GI	6598864	Score	1356
Exons	6369..6668, 6781..6900, 6985..7119, 7618..7853, 7974..8136, 8850..9041, 9159..9309, 9437..9651, 9735..9929, 10326..10395		
GI Descrip.	(AC010556) putative ATPase [Arabidopsis thaliana]		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o5.tm	Method	TBLASTX:Maize
Start	6871	End	7192
GI	none	Score	53
Exons	6871..6909, 6985..7188, 6985..7191, 6992..7192		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o3.tm	Method	TBLASTX:Maize
Start	7645	End	8933
GI	none	Score	105
Exons	7645..7752, 7646..7753, 7647..7754, 7758..7856, 7761..7847, 7765..7869, 7766..7870, 7972..8139, 7973..8137, 7974..8138, 8842..8931, 8850..8933, 8850..8933		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o1.tc	Method	TBLASTX:Cress
Start	7804	End	9652
GI	none	Score	96
Exons	7804..7869, 7972..8016, 8039..8074, 8056..8133, 8844..9020, 8850..9023, 8857..9039, 9156..9311, 9156..9311, 9185..9313, 9436..9465, 9496..9651, 9503..9652		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35
Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o2.tm	Method	TBLASTX:Maize
Start	8934	End	9652
GI	none	Score	77
Exons	8934..9047, 8938..9042, 9156..9266, 9157..9201, 9162..9272, 9218..9280, 9267..9311, 9436..9651, 9440..9472, 9497..9652		

Seq. No.	52845	Seq. ID	OJ990617_12.0420.C35

Gene No.	111520	Strand	-
Start	4865	End	10395
Name	OJ990617_12.0420.C35.o1.gp	Method	AAT/GAP
Start	8976	End	9827
GI	uC-osf1M202016a08b1	Score	990
Exons	8976..9041, 9159..9309, 9437..9651, 9735..9827		
GI Descrip.	'1652057/dbj\|BAA16982\| 2.0e-54 (D90902) hypothetical protein [Synechocystis sp.]'		

Seq. No.	52846	Seq. ID	OJ990617_12.0420.C36
Gene No.	111521	Strand	+
Start	173	End	1652
Name	OJ990617_12.0420.C36.o1.gs	Method	GENSCAN
Start	173	End	1652
GI	none	Score	.98
Exons	173..1014, 1103..1652		

Seq. No.	52846	Seq. ID	OJ990617_12.0420.C36
Gene No.	111521	Strand	+
Start	173	End	1652
Name	OJ990617_12.0420.C36.o1.np	Method	AAT/NAP
Start	194	End	1634
GI	6691217	Score	794
Exons	194..1014, 1103..1634		
GI Descrip.	(AC007508) F1K23.10 [Arabidopsis thaliana]		

Seq. No.	52846	Seq. ID	OJ990617_12.0420.C36
Gene No.	111521	Strand	+
Start	173	End	1652
Name	OJ990617_12.0420.C36.o1.tc	Method	TBLASTX:Cress
Start	905	End	1607
GI	none	Score	101
Exons	905..1018, 1109..1528, 1131..1514, 1518..1607		

Seq. No.	52847	Seq. ID	OJ990617_12.0420.C37
Gene No.	111522	Strand	+
Start	1	End	539
Name	OJ990617_12.0420.C37.o1.np	Method	AAT/NAP
Start	1	End	521
GI	6691217	Score	464
Exons	1..521		
GI Descrip.	(AC007508) F1K23.10 [Arabidopsis thaliana]		

Seq. No.	52847	Seq. ID	OJ990617_12.0420.C37
Gene No.	111522	Strand	+
Start	1	End	539
Name	OJ990617_12.0420.C37.o1.gs	Method	GENSCAN
Start	30	End	539
GI	none	Score	.99
Exons	30..539		

Seq. No.	52847	Seq. ID	OJ990617_12.0420.C37
Gene No.	111523	Strand	+
Start	833	End	2368
Name	OJ990617_12.0420.C37.o2.gs	Method	GENSCAN
Start	833	End	2368
GI	none	Score	.64

Exons	833..854, 975..1304, 1410..1615, 1730..2368		
Seq. No.	52847	Seq. ID	OJ990617_12.0420.C37
Gene No.	111524	Strand	-
Start	2038	End	2464
Name	OJ990617_12.0420.C37.o1.tc	Method	TBLASTX:Cress
Start	23	End	494
GI	none	Score	445
Exons	23..415, 24..401, 405..494		
Seq. No.	52847	Seq. ID	OJ990617_12.0420.C37
Gene No.	111524	Strand	-
Start	2038	End	2464
Name	OJ990617_12.0420.C37.o1.gp	Method	AAT/GAP
Start	2038	End	2464
GI	none	Score	826
Exons	2038..2464		
Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111525	Strand	+
Start	33	End	368
Name	OJ990617_12.0420.C38.o1.gs	Method	GENSCAN
Start	33	End	368
GI	none	Score	.98
Exons	33..368		
Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111526	Strand	-
Start	38	End	464
Name	OJ990617_12.0420.C38.o1.gp	Method	AAT/GAP
Start	38	End	464
GI	none	Score	822
Exons	38..464		
Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o2.gp	Method	AAT/GAP
Start	695	End	4711
GI	1373_1.R1084	Score	2823
Exons	695..1482, 1744..1857, 2069..2296, 2401..2544, 3884..4008, 4603..4711		
GI Descrip.	'2342719 2.0e-41 (AC002341) SF16 protein isolog [Arabidopsis thaliana]'		
Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o1.tm	Method	TBLASTX:Maize
Start	756	End	3967
GI	none	Score	45
Exons	756..785, 832..858, 933..977, 1013..1048, 1033..1071, 1069..1182, 1090..1155, 1167..1220, 1243..1326, 1246..1326, 1312..1500, 1314..1487, 1315..1500, 1734..1850, 1744..1860, 1751..1861, 2057..2299, 2124..2297, 2141..2299, 2390..2527, 2391..2525, 2401..2547, 2401..2547, 3879..3965, 3879..3962, 3884..3967, 3926..3967		

Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o2.gs	Method	GENSCAN
Start	982	End	3958
GI	none	Score	.87
Exons	982..1482, 1744..1857, 2069..2239, 2401..2544, 3884..3958		

Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o1.np	Method	AAT/NAP
Start	1216	End	3958
GI	2342719	Score	431
Exons	1216..1437, 1744..1857, 2069..2296, 2401..2499, 3884..3958		
GI Descrip.	(AC002341) putative SF16 protein {Helianthus annuus} [Arabidopsis thaliana]		

Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o1.ts	Method	TBLASTX:Soybean
Start	2057	End	3959
GI	none	Score	62
Exons	2057..2299, 2124..2228, 2401..2493, 3885..3959, 3926..3958		

Seq. No.	52848	Seq. ID	OJ990617_12.0420.C38
Gene No.	111527	Strand	-
Start	982	End	4711
Name	OJ990617_12.0420.C38.o1.tw	Method	TBLASTX:Wheat
Start	2124	End	3961
GI	none	Score	99
Exons	2124..2252, 2126..2299, 2141..2296, 2395..2526, 2404..2508, 3882..3959, 3882..3959, 3883..3960, 3884..3961, 3926..3961		

Seq. No.	52849	Seq. ID	OJ990617_12.0420.C43
Gene No.	111528	Strand	-
Start	64	End	270
Name	OJ990617_12.0420.C43.o1.gs	Method	GENSCAN
Start	64	End	270
GI	none	Score	.83
Exons	64..270		

Seq. No.	52850	Seq. ID	OJ990617_12.0420.C45
Gene No.	111529	Strand	-
Start	1	End	782
Name	OJ990617_12.0420.C45.o1.np	Method	AAT/NAP
Start	1	End	782
GI	4239889	Score	304
Exons	1..204, 536..591, 737..782		
GI Descrip.	(AB016802) MAP kinase 5 [Zea mays]		

Seq. No.	52850	Seq. ID	OJ990617_12.0420.C45
Gene No.	111529	Strand	-
Start	1	End	782
Name	OJ990617_12.0420.C45.o1.gs	Method	GENSCAN

Start	24	End	204
GI	none	Score	.92
Exons	24..204		

Seq. No.	52850	Seq. ID	OJ990617_12.0420.C45
Gene No.	111529	Strand	-
Start	1	End	782
Name	OJ990617_12.0420.C45.o1.tc	Method	TBLASTX:Cress
Start	24	End	583
GI	none	Score	151
Exons	24..161, 25..198, 26..205, 533..583		

Seq. No.	52850	Seq. ID	OJ990617_12.0420.C45
Gene No.	111529	Strand	-
Start	1	End	782
Name	OJ990617_12.0420.C45.o1.tm	Method	TBLASTX:Maize
Start	25	End	588
GI	none	Score	266
Exons	25..198, 26..205, 27..206, 28..207, 531..584, 533..583, 538..588		

Seq. No.	52850	Seq. ID	OJ990617_12.0420.C45
Gene No.	111529	Strand	-
Start	1	End	782
Name	OJ990617_12.0420.C45.o1.ts	Method	TBLASTX:Soybean
Start	25	End	584
GI	none	Score	178
Exons	25..198, 26..205, 37..207, 531..584, 533..583		

Seq. No.	52851	Seq. ID	OJ990617_12.0420.C46
Gene No.	111530	Strand	-
Start	159	End	270
Name	OJ990617_12.0420.C46.o1.gs	Method	GENSCAN
Start	159	End	270
GI	none	Score	.48
Exons	159..270		

Seq. No.	52852	Seq. ID	OJ990617_12.0420.C51
Gene No.	111531	Strand	-
Start	73	End	182
Name	OJ990617_12.0420.C51.o1.gs	Method	GENSCAN
Start	73	End	182
GI	none	Score	.74
Exons	73..182		

Seq. No.	52853	Seq. ID	OJ990617_12.0420.C59
Gene No.	111532	Strand	+
Start	689	End	2290
Name	OJ990617_12.0420.C59.o1.gs	Method	GENSCAN
Start	689	End	2290
GI	none	Score	.68
Exons	689..763, 2202..2290		

Seq. No.	52853	Seq. ID	OJ990617_12.0420.C59
Gene No.	111533	Strand	-
Start	1	End	85
Name	OJ990617_12.0420.C59.o1.gp	Method	AAT/GAP
Start	1	End	85

GI	uC-osf1M202097d10b1	Score	90
Exons	1..85		
GI Descrip.	'4062935/dbj\|AB003495.1\|AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	52853	Seq. ID	OJ990617_12.0420.C59
Gene No.	111534	Strand	-
Start	3968	End	4225
Name	OJ990617_12.0420.C59.o2.gs	Method	GENSCAN
Start	3968	End	4225
GI	none	Score	.45
Exons	3968..4225		

Seq. No.	52854	Seq. ID	OJ990617_12.0420.C60
Gene No.	111535	Strand	+
Start	748	End	949
Name	OJ990617_12.0420.C60.o1.gs	Method	GENSCAN
Start	748	End	949
GI	none	Score	.91
Exons	748..949		

Seq. No.	52855	Seq. ID	OJ990617_12.0420.C62
Gene No.	111536	Strand	+
Start	3037	End	8800
Name	OJ990617_12.0420.C62.o1.gs	Method	GENSCAN
Start	3037	End	8800
GI	none	Score	.83
Exons	3037..3091, 3719..3840, 3988..4049, 4163..4203, 4730..4947, 5776..5883, 5911..8355, 8516..8623, 8651..8800		

Seq. No.	52855	Seq. ID	OJ990617_12.0420.C62
Gene No.	111536	Strand	+
Start	3037	End	8800
Name	OJ990617_12.0420.C62.o1.np	Method	AAT/NAP
Start	3615	End	4956
GI	4903139	Score	543
Exons	3615..3840, 3988..4049, 4163..4203, 4730..4956		
GI Descrip.	(AB027456) extensive homology to FT (FLOWERING LOCUS T, AB027504) and TSF (TWIN SISTER OF FT, AB027506) genes of Arabidopsis thaliana; similar to mammalian phophatidylethanolamine binding protein (PEBP) and hippocampal cholin...		

Seq. No.	52855	Seq. ID	OJ990617_12.0420.C62
Gene No.	111536	Strand	+
Start	3037	End	8800
Name	OJ990617_12.0420.C62.o1.tm	Method	TBLASTX:Maize
Start	4726	End	4971
GI	none	Score	297
Exons	4726..4890, 4728..4943, 4729..4971		

Seq. No.	52855	Seq. ID	OJ990617_12.0420.C62
Gene No.	111536	Strand	+
Start	3037	End	8800
Name	OJ990617_12.0420.C62.o1.ts	Method	TBLASTX:Soybean
Start	4726	End	4953
GI	none	Score	338

Exons	4726..4890, 4728..4946, 4729..4953		
Seq. No.	52856	Seq. ID	OJ990617_12.0420.C64
Gene No.	111537	Strand	+
Start	204	End	2366
Name	OJ990617_12.0420.C64.o1.gs	Method	GENSCAN
Start	204	End	2366
GI	none	Score	.76
Exons	204..285, 2308..2366		
Seq. No.	52857	Seq. ID	OJ990617_12.0420.C70
Gene No.	111538	Strand	-
Start	1	End	1116
Name	OJ990617_12.0420.C70.o1.np	Method	AAT/NAP
Start	1	End	1116
GI	5441880	Score	719
Exons	1..71, 177..327, 887..1116		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	52857	Seq. ID	OJ990617_12.0420.C70
Gene No.	111538	Strand	-
Start	1	End	1116
Name	OJ990617_12.0420.C70.o1.gs	Method	GENSCAN
Start	177	End	905
GI	none	Score	.62
Exons	177..327, 767..905		
Seq. No.	52858	Seq. ID	OJ990617_12.0420.C71
Gene No.	111539	Strand	-
Start	1	End	938
Name	OJ990617_12.0420.C71.o1.np	Method	AAT/NAP
Start	1	End	938
GI	7228442	Score	1608
Exons	1..938		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		
Seq. No.	52858	Seq. ID	OJ990617_12.0420.C71
Gene No.	111539	Strand	-
Start	1	End	938
Name	OJ990617_12.0420.C71.o1.gs	Method	GENSCAN
Start	271	End	938
GI	none	Score	.41
Exons	271..938		
Seq. No.	52858	Seq. ID	OJ990617_12.0420.C71
Gene No.	111540	Strand	-
Start	1387	End	1537
Name	OJ990617_12.0420.C71.o1.gp	Method	AAT/GAP
Start	1387	End	1537
GI	7406_1.R1084	Score	213
Exons	1387..1537		
GI Descrip.	'1122315/emb\|CAA63901\| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	52859	Seq. ID	OJ990617_12.0420.C72
Gene No.	111541	Strand	+
Start	1527	End	3683
Name	OJ990617_12.0420.C72.o1.gp	Method	AAT/GAP
Start	1527	End	3683
GI	none	Score	1086
Exons	1527..1853, 3450..3683		

Seq. No.	52859	Seq. ID	OJ990617_12.0420.C72
Gene No.	111542	Strand	-
Start	775	End	3660
Name	OJ990617_12.0420.C72.o1.gs	Method	GENSCAN
Start	775	End	3660
GI	none	Score	.83
Exons	775..817, 1707..1838, 3596..3660		

Seq. No.	52860	Seq. ID	OJ990617_12.0420.C74
Gene No.	111543	Strand	+
Start	158	End	1680
Name	OJ990617_12.0420.C74.o1.gs	Method	GENSCAN
Start	158	End	1680
GI	none	Score	.98
Exons	158..226, 1549..1680		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.gs	Method	GENSCAN
Start	1480	End	4101
GI	none	Score	.68
Exons	1480..1577, 1690..1754, 2079..2223, 2360..2431, 2572..2719, 2839..3108, 3933..4101		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.gp	Method	AAT/GAP
Start	2047	End	2916
GI	426039	Score	649
Exons	2047..2223, 2360..2431, 2649..2719, 2839..2916		
GI Descrip.	4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.tm	Method	TBLASTX:Maize
Start	2125	End	4256
GI	none	Score	82
Exons	2125..2223, 2137..2223, 2150..2233, 2357..2422, 2358..2426, 2359..2430, 2620..2724, 2646..2720, 2647..2721, 2813..2929, 2827..2955, 2832..2933, 2842..2979, 2922..3110, 2941..3111, 3343..3510, 3344..3502, 3345..3515, 3345..3503, 3609..3665, 3613..3675, 3622..3666, 3790..3840, 3791..3841, 3890..4099, 3927..4106, 3927..4061, 4171..4254, 4192..4254, 4200..4256, 4203..4256		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.np	Method	AAT/NAP
Start	2177	End	4256
GI	7485485	Score	267
Exons	2177..2223, 2360..2431, 2623..2749, 2839..2968, 2999..3108, 3346..3445, 3581..3654, 3725..3843, 4175..4256		
GI Descrip.	hypothetical protein F14M19.50 - Arabidopsis thaliana gi\|4539295\|emb\|CAB39598.1\| (AL049480) putative protein [Arabidopsis thaliana] gi\|7269428\|emb\|CAB79432.1\| (AL161564) putative protein [Arabidopsis thaliana]		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.tw	Method	TBLASTX:Wheat
Start	2654	End	3111
GI	none	Score	72
Exons	2654..2722, 2827..3003, 2838..2933, 3022..3111, 3030..3110		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o2.ts	Method	TBLASTX:Soybean
Start	3021	End	3675
GI	none	Score	64
Exons	3021..3107, 3030..3104, 3031..3111, 3037..3108, 3337..3507, 3343..3507, 3612..3665, 3613..3675		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.ts	Method	TBLASTX:Soybean
Start	3803	End	4256
GI	none	Score	48
Exons	3803..3841, 3921..4106, 3944..4018, 3951..4052, 4192..4254, 4194..4256		

Seq. No.	52861	Seq. ID	OJ990617_12.0420.C86
Gene No.	111544	Strand	+
Start	1480	End	4256
Name	OJ990617_12.0420.C86.o1.tc	Method	TBLASTX:Cress
Start	3969	End	4256
GI	none	Score	167
Exons	3969..4106, 4192..4254, 4194..4256		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111545	Strand	-
Start	62	End	160
Name	OJ990617_12.0420.C87.o1.gp	Method	AAT/GAP
Start	62	End	160
GI	3735_1.R1084	Score	146
Exons	62..160		
GI Descrip.	'4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]'		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o2.gp	Method	AAT/GAP
Start	557	End	793
GI	LIB3434-019-P1-K1-C1	Score	424
Exons	557..793		
GI Descrip.	'4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]'		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.tw	Method	TBLASTX:Wheat
Start	651	End	1111
GI	none	Score	53
Exons	651..695, 658..720, 659..697, 777..809, 778..825, 779..814, 850..1047, 866..1111, 888..1094		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.tm	Method	TBLASTX:Maize
Start	782	End	1111
GI	none	Score	61
Exons	782..832, 783..833, 783..833, 784..834, 840..1064, 841..1065, 845..1111, 846..1094		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.ts	Method	TBLASTX:Soybean
Start	895	End	1067
GI	none	Score	181
Exons	895..1041, 899..1066, 906..1067		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.gs	Method	GENSCAN
Start	896	End	1065
GI	none	Score	.99
Exons	896..1065		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.tc	Method	TBLASTX:Cress
Start	896	End	1111
GI	none	Score	104
Exons	896..1048, 899..1111, 906..1109		

Seq. No.	52862	Seq. ID	OJ990617_12.0420.C87
Gene No.	111546	Strand	-
Start	896	End	1501
Name	OJ990617_12.0420.C87.o1.np	Method	AAT/NAP

Start	899	End	1501
GI	4239889	Score	264
Exons	899..1113, 1271..1501		
GI Descrip.	(AB016802) MAP kinase 5 [Zea mays]		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.np	Method	AAT/NAP
Start	1	End	1957
GI	4239889	Score	874
Exons	1..96, 428..760, 1820..1957		
GI Descrip.	(AB016802) MAP kinase 5 [Zea mays]		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.tm	Method	TBLASTX:Maize
Start	2	End	1958
GI	none	Score	138
Exons	2..97, 4..99, 4..90, 24..107, 423..761, 425..763, 429..764, 430..762, 1820..1957, 1824..1958		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.tc	Method	TBLASTX:Cress
Start	4	End	1958
GI	none	Score	70
Exons	4..90, 23..97, 423..761, 425..763, 430..768, 446..763, 1820..1957, 1821..1958		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.ts	Method	TBLASTX:Soybean
Start	7	End	1957
GI	none	Score	53
Exons	7..57, 22..60, 40..90, 56..97, 425..763, 426..761, 446..763, 447..764, 1820..1912, 1820..1957, 1824..1946		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.gs	Method	GENSCAN
Start	428	End	1957
GI	none	Score	.56
Exons	428..745, 1820..1957		

Seq. No.	52863	Seq. ID	OJ990617_12.0420.C88
Gene No.	111547	Strand	-
Start	1	End	1958
Name	OJ990617_12.0420.C88.o1.tw	Method	TBLASTX:Wheat
Start	453	End	1870
GI	none	Score	297
Exons	453..761, 458..763, 504..764, 508..762, 1820..1870		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.np	Method	AAT/NAP
Start	1	End	2079
GI	2499610	Score	386
Exons	1..43, 1614..1747, 1835..2079		
GI Descrip.	MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG 6 (MAP KINASE 6) (ATMPK6) gi\|629547\|pir\|\|S40472 mitogen-activated protein kinase 6 (EC 2.7.1.-) - Arabidopsis thaliana gi\|457404\|dbj\|BAA04869\| (D21842) MAP kinase [Arabidopsis thaliana] gi\|2281091\|gb\|AAB64027.1\| (AC002333) MAP kinase (ATMPK6) [Arabidopsis thaliana]		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.gs	Method	GENSCAN
Start	247	End	2666
GI	none	Score	.42
Exons	247..348, 1618..1747, 1835..2101, 2590..2666		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.tc	Method	TBLASTX:Cress
Start	1609	End	1972
GI	none	Score	66
Exons	1609..1746, 1615..1695, 1835..1972, 1837..1971		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.tm	Method	TBLASTX:Maize
Start	1609	End	2083
GI	none	Score	116
Exons	1609..1746, 1610..1747, 1612..1749, 1835..1975, 1837..1974, 2038..2082, 2039..2083		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.ts	Method	TBLASTX:Soybean
Start	1609	End	1972
GI	none	Score	69
Exons	1609..1746, 1610..1747, 1826..1972, 1837..1971		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-
Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.tw	Method	TBLASTX:Wheat
Start	1609	End	1942
GI	none	Score	124
Exons	1609..1746, 1610..1747, 1615..1749, 1835..1942, 1837..1941		

Seq. No.	52864	Seq. ID	OJ990617_12.0420.C89
Gene No.	111548	Strand	-

Start	1	End	2666
Name	OJ990617_12.0420.C89.o1.gp	Method	AAT/GAP
Start	1643	End	2139
GI	LIB3432-030-P1-K1-A5	Score	500
Exons	1643..1747, 1835..2139		
GI Descrip.	'2499615/sp\|Q40532\|NTF4_TOBAC 2.0e-24 MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG NTF4 (P45) >gi_1076640_pir__S51321 serine/threonine protein kinase p45Ntf4 - common tobacco >gi_2129968_pir__S68190 serine/threonine protein kinase p45 - common tobacco >gi_634070_emb_CAA58761_ (X83880) p45Ntf4 serine/threonine protein kinase [Nicotiana tabacum]'		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111549	Strand	+
Start	2007	End	3593
Name	OJ990617_12.0420.C90.o1.gp	Method	AAT/GAP
Start	2007	End	3593
GI	LIB3431-045-P1-N1-A10	Score	567
Exons	2007..2125, 3371..3593		
GI Descrip.	'5441876/dbj\|AP000367.1\|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111550	Strand	-
Start	636	End	1284
Name	OJ990617_12.0420.C90.o1.gs	Method	GENSCAN
Start	636	End	1248
GI	none	Score	.93
Exons	636..855, 1052..1248		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111550	Strand	-
Start	636	End	1284
Name	OJ990617_12.0420.C90.o1.np	Method	AAT/NAP
Start	654	End	1284
GI	6671931	Score	308
Exons	654..855, 1052..1284		
GI Descrip.	(AC016795) putative dihydroneopterin aldolase [Arabidopsis thaliana]		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o1.tw	Method	TBLASTX:Wheat
Start	654	End	1221
GI	none	Score	133
Exons	654..860, 666..860, 667..864, 700..864, 812..868, 1054..1221, 1055..1198		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o1.tm	Method	TBLASTX:Maize
Start	660	End	1221
GI	none	Score	140
Exons	660..860, 669..860, 670..864, 727..864, 1054..1221, 1055..1195		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o1.ts	Method	TBLASTX:Soybean
Start	663	End	1248
GI	none	Score	69
Exons	663..860, 666..848, 667..855, 1036..1143, 1054..1248, 1058..1195		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o1.tc	Method	TBLASTX:Cress
Start	1054	End	1221
GI	none	Score	108
Exons	1054..1221, 1055..1201		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o2.gs	Method	GENSCAN
Start	2323	End	3235
GI	none	Score	.55
Exons	2323..2481, 2562..2762, 2933..3235		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o2.np	Method	AAT/NAP
Start	2502	End	3657
GI	7228438	Score	979
Exons	2502..2762, 2933..3235, 3573..3657		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	52865	Seq. ID	OJ990617_12.0420.C90
Gene No.	111551	Strand	-
Start	2323	End	3657
Name	OJ990617_12.0420.C90.o3.np	Method	AAT/NAP
Start	3506	End	3657
GI	7228442	Score	120
Exons	3506..3657		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	52866	Seq. ID	OJ990617_12.0420.C91
Gene No.	111552	Strand	-
Start	98	End	1484
Name	OJ990617_12.0420.C91.o1.np	Method	AAT/NAP
Start	98	End	1484
GI	5441880	Score	1147
Exons	98..332, 448..579, 826..923, 1168..1484		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	52866	Seq. ID	OJ990617_12.0420.C91
Gene No.	111552	Strand	-
Start	98	End	1484
Name	OJ990617_12.0420.C91.o1.gs	Method	GENSCAN
Start	130	End	1426
GI	none	Score	.73
Exons	130..332, 337..384, 448..579, 670..735, 826..923, 950..1075, 1168..1426		

Seq. No.	52866	Seq. ID	OJ990617_12.0420.C91
Gene No.	111552	Strand	-
Start	98	End	1484
Name	OJ990617_12.0420.C91.o1.gp	Method	AAT/GAP
Start	1176	End	1426
GI	LIB3475-007-P1-K1-G8	Score	448
Exons	1176..1426		
GI Descrip.	'5441880/dbj\|BAA82378.1\| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	52867	Seq. ID	OJ990617_12.0420.C92
Gene No.	111553	Strand	-
Start	1	End	1297
Name	OJ990617_12.0420.C92.o1.np	Method	AAT/NAP
Start	1	End	1297
GI	7228438	Score	1015
Exons	1..171, 263..673, 758..874, 1252..1297		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	52867	Seq. ID	OJ990617_12.0420.C92
Gene No.	111553	Strand	-
Start	1	End	1297
Name	OJ990617_12.0420.C92.o1.gs	Method	GENSCAN
Start	80	End	967
GI	none	Score	.72
Exons	80..171, 263..673, 848..967		

Seq. No.	52868	Seq. ID	OJ990617_12.0420.C93
Gene No.	111554	Strand	+
Start	1	End	1654
Name	OJ990617_12.0420.C93.o1.np	Method	AAT/NAP
Start	1	End	1654
GI	4006829	Score	100
Exons	1..26, 907..1042, 1625..1654		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	52868	Seq. ID	OJ990617_12.0420.C93
Gene No.	111554	Strand	+
Start	1	End	1654
Name	OJ990617_12.0420.C93.o1.gp	Method	AAT/GAP
Start	886	End	1042
GI	49507_1.R1084	Score	226
Exons	886..1042		
GI Descrip.	'4006829/gb\|AAC95171.1\| 2.0e-55 (AC005970) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	52868	Seq. ID	OJ990617_12.0420.C93
Gene No.	111554	Strand	+
Start	1	End	1654
Name	OJ990617_12.0420.C93.o1.gs	Method	GENSCAN
Start	907	End	1042
GI	none	Score	.99
Exons	907..1042		

Seq. No.	52869	Seq. ID	OJ990617_12.0420.C99
Gene No.	111555	Strand	+
Start	303	End	735
Name	OJ990617_12.0420.C99.o1.gp	Method	AAT/GAP
Start	303	End	735
GI	3735_1.R1084	Score	794
Exons	303..735		
GI Descrip.	'4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]'		

Seq. No.	52870	Seq. ID	OJ990617_12.0420.C100
Gene No.	111556	Strand	-
Start	292	End	1270
Name	OJ990617_12.0420.C100.o1.gp	Method	AAT/GAP
Start	292	End	927
GI	3735_1.R1084	Score	1006
Exons	292..768, 861..927		
GI Descrip.	'4539295/emb\|CAB39598.1\| 2.0e-10 (AL049480) putative protein [Arabidopsis thaliana]'		

Seq. No.	52870	Seq. ID	OJ990617_12.0420.C100
Gene No.	111556	Strand	-
Start	292	End	1270
Name	OJ990617_12.0420.C100.o1.tm	Method	TBLASTX:Maize
Start	646	End	1270
GI	none	Score	150
Exons	646..780, 665..781, 848..958, 858..968, 859..960, 1054..1233, 1061..1270, 1099..1233		

Seq. No.	52870	Seq. ID	OJ990617_12.0420.C100
Gene No.	111556	Strand	-
Start	292	End	1270
Name	OJ990617_12.0420.C100.o1.ts	Method	TBLASTX:Soybean
Start	647	End	1239
GI	none	Score	99
Exons	647..763, 662..769, 664..780, 709..780, 858..965, 858..968, 859..966, 1054..1239, 1108..1209, 1142..1216		

Seq. No.	52870	Seq. ID	OJ990617_12.0420.C100
Gene No.	111556	Strand	-
Start	292	End	1270
Name	OJ990617_12.0420.C100.o1.gs	Method	GENSCAN
Start	664	End	1227
GI	none	Score	.82
Exons	664..791, 1059..1227		

Seq. No.	52870	Seq. ID	OJ990617_12.0420.C100
Gene No.	111556	Strand	-

Start	292	End	1270
Name	OJ990617_12.0420.C100.o1.tc	Method	TBLASTX:Cress
Start	668	End	1191
GI	none	Score	86
Exons	668..745, 670..744, 858..959, 858..968, 859..966, 866..985, 1054..1191		

Seq. No.	52871	Seq. ID	OJ990617_12.0420.C101
Gene No.	111557	Strand	-
Start	196	End	627
Name	OJ990617_12.0420.C101.o1.gs	Method	GENSCAN
Start	196	End	627
GI	none	Score	.68
Exons	196..304, 476..627		

Seq. No.	52872	Seq. ID	OJ990617_12.0420.C108
Gene No.	111558	Strand	-
Start	944	End	2455
Name	OJ990617_12.0420.C108.o1.gp	Method	AAT/GAP
Start	726	End	955
GI	3760905	Score	421
Exons	726..955		

Seq. No.	52872	Seq. ID	OJ990617_12.0420.C108
Gene No.	111558	Strand	-
Start	944	End	2455
Name	OJ990617_12.0420.C108.o1.gs	Method	GENSCAN
Start	944	End	1450
GI	none	Score	.85
Exons	944..1279, 1406..1450		

Seq. No.	52872	Seq. ID	OJ990617_12.0420.C108
Gene No.	111558	Strand	-
Start	944	End	2455
Name	OJ990617_12.0420.C108.o1.np	Method	AAT/NAP
Start	950	End	2455
GI	6730751	Score	158
Exons	950..1273, 1364..1501, 2410..2455		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52872	Seq. ID	OJ990617_12.0420.C108
Gene No.	111558	Strand	-
Start	944	End	2455
Name	OJ990617_12.0420.C108.o1.tc	Method	TBLASTX:Cress
Start	950	End	1501
GI	none	Score	93
Exons	950..1132, 951..1148, 1055..1276, 1104..1232, 1409..1501		

Seq. No.	52872	Seq. ID	OJ990617_12.0420.C108
Gene No.	111558	Strand	-
Start	944	End	2455
Name	OJ990617_12.0420.C108.o1.tm	Method	TBLASTX:Maize
Start	956	End	1501
GI	none	Score	300
Exons	956..1216, 957..1217, 1139..1222, 1241..1285, 1242..1280, 1244..1282, 1433..1501		

Seq. No.	52873	Seq. ID	OJ990617_12.0420.C109
Gene No.	111559	Strand	-
Start	1	End	931
Name	OJ990617_12.0420.C109.o1.np	Method	AAT/NAP
Start	1	End	931
GI	6730751	Score	168
Exons	1..149, 283..453, 826..931		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52873	Seq. ID	OJ990617_12.0420.C109
Gene No.	111559	Strand	-
Start	1	End	931
Name	OJ990617_12.0420.C109.o1.gp	Method	AAT/GAP
Start	61	End	893
GI	286763	Score	583
Exons	61..149, 283..453, 826..893		

Seq. No.	52873	Seq. ID	OJ990617_12.0420.C109
Gene No.	111559	Strand	-
Start	1	End	931
Name	OJ990617_12.0420.C109.o1.gs	Method	GENSCAN
Start	75	End	926
GI	none	Score	.91
Exons	75..149, 283..453, 826..926		

Seq. No.	52874	Seq. ID	OJ990617_12.0420.C111
Gene No.	111560	Strand	-
Start	60	End	1567
Name	OJ990617_12.0420.C111.o1.gp	Method	AAT/GAP
Start	60	End	876
GI	3776_1.R1084	Score	1335
Exons	60..658, 748..876		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		

Seq. No.	52874	Seq. ID	OJ990617_12.0420.C111
Gene No.	111560	Strand	-
Start	60	End	1567
Name	OJ990617_12.0420.C111.o1.gs	Method	GENSCAN
Start	356	End	1517
GI	none	Score	.52
Exons	356..459, 518..747, 1303..1517		

Seq. No.	52874	Seq. ID	OJ990617_12.0420.C111
Gene No.	111560	Strand	-
Start	60	End	1567
Name	OJ990617_12.0420.C111.o1.np	Method	AAT/NAP
Start	371	End	1567
GI	6572063	Score	249
Exons	371..661, 748..878, 1303..1567		
GI Descrip.	(AL133452) mucin-like protein [Arabidopsis thaliana]		

Seq. No.	52874	Seq. ID	OJ990617_12.0420.C111
Gene No.	111560	Strand	-
Start	60	End	1567
Name	OJ990617_12.0420.C111.o1.ts	Method	TBLASTX:Soybean
Start	393	End	1542

GI	none	Score	129
Exons	393..623, 398..679, 739..831, 1300..1542, 1302..1541	755..844, 824..880, 828..875,	

Seq. No.	52874	Seq. ID	OJ990617_12.0420.C111
Gene No.	111560	Strand	-
Start	60	End	1567
Name	OJ990617_12.0420.C111.o1.tm	Method	TBLASTX:Maize
Start	780	End	1476
GI	none	Score	73
Exons	780..881, 781..816, 836..880, 1303..1407, 1398..1475, 1399..1476	1302..1385, 1302..1406,	

Seq. No.	52875	Seq. ID	OJ990617_12.0420.C115
Gene No.	111561	Strand	-
Start	1	End	1256
Name	OJ990617_12.0420.C115.o1.np	Method	AAT/NAP
Start	1	End	1256
GI	6648172	Score	119
Exons	1..59, 652..747, 831..893, 1001..1060, 1167..1256		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	52875	Seq. ID	OJ990617_12.0420.C115
Gene No.	111561	Strand	-
Start	1	End	1256
Name	OJ990617_12.0420.C115.o1.tm	Method	TBLASTX:Maize
Start	651	End	1061
GI	none	Score	73
Exons	651..743, 651..749, 652..750, 983..1060, 984..1061	652..750, 801..896, 826..894,	

Seq. No.	52875	Seq. ID	OJ990617_12.0420.C115
Gene No.	111561	Strand	-
Start	1	End	1256
Name	OJ990617_12.0420.C115.o1.gs	Method	GENSCAN
Start	831	End	1060
GI	none	Score	.99
Exons	831..893, 1001..1060		

Seq. No.	52876	Seq. ID	OJ990617_12.0420.C116
Gene No.	111562	Strand	+
Start	563	End	694
Name	OJ990617_12.0420.C116.o1.gs	Method	GENSCAN
Start	563	End	694
GI	none	Score	.87
Exons	563..694		

Seq. No.	52877	Seq. ID	OJ990617_12.0420.C118
Gene No.	111563	Strand	-
Start	743	End	1383
Name	OJ990617_12.0420.C118.o1.gs	Method	GENSCAN
Start	743	End	1080
GI	none	Score	.68
Exons	743..950, 977..1080		

Seq. No.	52877	Seq. ID	OJ990617_12.0420.C118

Gene No.	111563	Strand	-
Start	743	End	1383
Name	OJ990617_12.0420.C118.o1.np	Method	AAT/NAP
Start	872	End	1383
GI	6598622	Score	141
Exons	872..1210, 1320..1383		
GI Descrip.	(AC006837) unknown protein [Arabidopsis thaliana]		

Seq. No.	52877	Seq. ID	OJ990617_12.0420.C118
Gene No.	111563	Strand	-
Start	743	End	1383
Name	OJ990617_12.0420.C118.o1.tm	Method	TBLASTX:Maize
Start	1050	End	1196
GI	none	Score	119
Exons	1050..1196, 1054..1185		

Seq. No.	52877	Seq. ID	OJ990617_12.0420.C118
Gene No.	111563	Strand	-
Start	743	End	1383
Name	OJ990617_12.0420.C118.o1.ts	Method	TBLASTX:Soybean
Start	1050	End	1196
GI	none	Score	182
Exons	1050..1196		

Seq. No.	52878	Seq. ID	OJ990617_12.0420.C119
Gene No.	111564	Strand	+
Start	305	End	989
Name	OJ990617_12.0420.C119.o1.gs	Method	GENSCAN
Start	305	End	989
GI	none	Score	.58
Exons	305..307, 490..989		

Seq. No.	52878	Seq. ID	OJ990617_12.0420.C119
Gene No.	111565	Strand	-
Start	1	End	996
Name	OJ990617_12.0420.C119.o1.np	Method	AAT/NAP
Start	1	End	996
GI	6730753	Score	500
Exons	1..22, 264..363, 463..996		
GI Descrip.	(AC016529) unknown protein [Arabidopsis thaliana]		

Seq. No.	52878	Seq. ID	OJ990617_12.0420.C119
Gene No.	111565	Strand	-
Start	1	End	996
Name	OJ990617_12.0420.C119.o1.tm	Method	TBLASTX:Maize
Start	265	End	996
GI	none	Score	54
Exons	265..369, 278..364, 463..594, 467..586, 646..996, 663..995		

Seq. No.	52878	Seq. ID	OJ990617_12.0420.C119
Gene No.	111565	Strand	-
Start	1	End	996
Name	OJ990617_12.0420.C119.o1.ts	Method	TBLASTX:Soybean
Start	463	End	996
GI	none	Score	136
Exons	463..603, 663..995, 664..996		

Seq. No.	52879	Seq. ID	OJ990617_12.0420.C120
Gene No.	111566	Strand	-
Start	21	End	1317
Name	OJ990617_12.0420.C120.o1.gs	Method	GENSCAN
Start	21	End	1317
GI	none	Score	.52
Exons	21..57, 1271..1317		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.gs	Method	GENSCAN
Start	393	End	2131
GI	none	Score	.48
Exons	393..599, 1471..1570, 1579..1687, 1765..1849, 2008..2131		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.gp	Method	AAT/GAP
Start	527	End	2254
GI	159_1.R1084	Score	903
Exons	527..599, 1366..1482, 1571..1687, 1765..1849, 2008..2136, 2228..2254		
GI Descrip.	'3292830/emb\|CAA19820.1\| 1.0e-15 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.tm	Method	TBLASTX:Maize
Start	1375	End	1850
GI	none	Score	104
Exons	1375..1482, 1383..1481, 1391..1495, 1391..1486, 1563..1685, 1570..1671, 1571..1687, 1574..1675, 1751..1849, 1762..1845, 1770..1850		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.tc	Method	TBLASTX:Cress
Start	1384	End	1685
GI	none	Score	114
Exons	1384..1485, 1394..1495, 1563..1685, 1571..1678		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.ts	Method	TBLASTX:Soybean
Start	1396	End	1685
GI	none	Score	106
Exons	1396..1485, 1397..1486, 1547..1672, 1563..1685, 1571..1672		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.np	Method	AAT/NAP

Start	1397	End	2254
GI	6166140	Score	568
Exons	1397..1482, 1571..1687, 1765..1849, 2008..2133, 2225..2254		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi\|1084457\|pir\|\|S41086 elongation factor 1-beta - Rice gi\|432368\|dbj\|BAA04903\| (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	52880	Seq. ID	OJ990617_12.0420.C121
Gene No.	111567	Strand	+
Start	393	End	2254
Name	OJ990617_12.0420.C121.o1.tw	Method	TBLASTX:Wheat
Start	1407	End	1794
GI	none	Score	58
Exons	1407..1481, 1414..1485, 1415..1495, 1563..1685, 1565..1678, 1571..1687, 1762..1794		

Seq. No.	52881	Seq. ID	OJ990617_12.0420.C122
Gene No.	111568	Strand	+
Start	290	End	544
Name	OJ990617_12.0420.C122.o1.gp	Method	AAT/GAP
Start	290	End	544
GI	159_2.R1084	Score	441
Exons	290..544		
GI Descrip.	'1084457/pir\|\|S41086 3.0e-44 elongation factor 1-beta - Rice >gi_432368_dbj_BAA04903_ (D23674) elongation factor 1 beta [Oryza sativa]'		

Seq. No.	52882	Seq. ID	OJ990617_12.0420.C134
Gene No.	111569	Strand	+
Start	351	End	1603
Name	OJ990617_12.0420.C134.o1.gs	Method	GENSCAN
Start	351	End	1402
GI	none	Score	.75
Exons	351..391, 947..1025, 1135..1200, 1304..1402		

Seq. No.	52882	Seq. ID	OJ990617_12.0420.C134
Gene No.	111569	Strand	+
Start	351	End	1603
Name	OJ990617_12.0420.C134.o1.np	Method	AAT/NAP
Start	852	End	1603
GI	6648172	Score	197
Exons	852..1025, 1304..1394, 1582..1603		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	52883	Seq. ID	OJ990617_12.0420.C147
Gene No.	111570	Strand	-
Start	516	End	672
Name	OJ990617_12.0420.C147.o1.gs	Method	GENSCAN
Start	516	End	672
GI	none	Score	.76
Exons	516..672		

Seq. No.	52884	Seq. ID	OJ990617_12.0420.C152
Gene No.	111571	Strand	+
Start	68	End	139
Name	OJ990617_12.0420.C152.o1.gs	Method	GENSCAN

Start	68	End	139
GI	none	Score	.76
Exons	68..139		

Seq. No.	52884	Seq. ID	OJ990617_12.0420.C152
Gene No.	111572	Strand	+
Start	731	End	1984
Name	OJ990617_12.0420.C152.o1.np	Method	AAT/NAP
Start	731	End	1984
GI	6907106	Score	413
Exons	731..938, 1287..1705, 1779..1984		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52884	Seq. ID	OJ990617_12.0420.C152
Gene No.	111573	Strand	-
Start	700	End	2176
Name	OJ990617_12.0420.C152.o2.gs	Method	GENSCAN
Start	700	End	2176
GI	none	Score	.47
Exons	700..968, 1012..1449, 1525..1651, 1702..1885, 2064..2176		

Seq. No.	52884	Seq. ID	OJ990617_12.0420.C152
Gene No.	111573	Strand	-
Start	700	End	2176
Name	OJ990617_12.0420.C152.o1.tm	Method	TBLASTX:Maize
Start	1536	End	1888
GI	none	Score	91
Exons	1536..1613, 1553..1615, 1553..1612, 1643..1738, 1643..1750, 1679..1738, 1715..1816, 1754..1888, 1755..1802, 1840..1887		

Seq. No.	52885	Seq. ID	OJ990617_12.0420.C153
Gene No.	111574	Strand	+
Start	1	End	1600
Name	OJ990617_12.0420.C153.o1.np	Method	AAT/NAP
Start	1	End	1598
GI	6730751	Score	154
Exons	1..35, 945..1094, 1191..1410, 1512..1598		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52885	Seq. ID	OJ990617_12.0420.C153
Gene No.	111574	Strand	+
Start	1	End	1600
Name	OJ990617_12.0420.C153.o1.gs	Method	GENSCAN
Start	81	End	1511
GI	none	Score	.76
Exons	81..150, 945..1094, 1236..1403, 1425..1511		

Seq. No.	52885	Seq. ID	OJ990617_12.0420.C153
Gene No.	111574	Strand	+
Start	1	End	1600
Name	OJ990617_12.0420.C153.o1.tm	Method	TBLASTX:Maize
Start	922	End	1585
GI	none	Score	203
Exons	922..993, 935..1087, 945..1097, 1188..1403, 1188..1406, 1193..1411, 1500..1577, 1502..1585, 1504..1584		

Seq. No.	52885	Seq. ID	OJ990617_12.0420.C153
Gene No.	111574	Strand	+
Start	1	End	1600
Name	OJ990617_12.0420.C153.o1.ts	Method	TBLASTX:Soybean
Start	941	End	1600
GI	none	Score	74
Exons	941..988, 945..1016, 999..1097, 1049..1096, 1149..1409, 1188..1406, 1193..1414, 1502..1600, 1534..1596		

Seq. No.	52885	Seq. ID	OJ990617_12.0420.C153
Gene No.	111574	Strand	+
Start	1	End	1600
Name	OJ990617_12.0420.C153.o1.tc	Method	TBLASTX:Cress
Start	1253	End	1600
GI	none	Score	143
Exons	1253..1390, 1254..1403, 1502..1600		

Seq. No.	52886	Seq. ID	OJ990617_12.0420.C154
Gene No.	111575	Strand	+
Start	1	End	779
Name	OJ990617_12.0420.C154.o1.np	Method	AAT/NAP
Start	1	End	779
GI	6730751	Score	112
Exons	1..135, 470..534, 727..779		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52886	Seq. ID	OJ990617_12.0420.C154
Gene No.	111575	Strand	+
Start	1	End	779
Name	OJ990617_12.0420.C154.o1.tm	Method	TBLASTX:Maize
Start	2	End	552
GI	none	Score	201
Exons	2..136, 3..140, 3..137, 447..545, 468..545, 469..552		

Seq. No.	52886	Seq. ID	OJ990617_12.0420.C154
Gene No.	111575	Strand	+
Start	1	End	779
Name	OJ990617_12.0420.C154.o1.gs	Method	GENSCAN
Start	30	End	135
GI	none	Score	.9
Exons	30..135		

Seq. No.	52887	Seq. ID	OJ990617_10.0419.C1
Gene No.	111576	Strand	-
Start	1	End	1091
Name	OJ990617_10.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1091
GI	6721547	Score	78
Exons	1..64, 997..1091		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	52888	Seq. ID	OJ990617_10.0419.C2
Gene No.	111577	Strand	+
Start	238	End	307
Name	OJ990617_10.0419.C2.o1.gs	Method	GENSCAN
Start	238	End	307
GI	none	Score	.92

Exons	238..307		
Seq. No.	52889	Seq. ID	OJ990617_10.0419.C6
Gene No.	111578	Strand	+
Start	1	End	831
Name	OJ990617_10.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	103
GI	5852178	Score	88
Exons	1..103		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		
Seq. No.	52889	Seq. ID	OJ990617_10.0419.C6
Gene No.	111578	Strand	+
Start	1	End	831
Name	OJ990617_10.0419.C6.o2.np	Method	AAT/NAP
Start	1	End	831
GI	6063554	Score	146
Exons	1..70, 656..831		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	52890	Seq. ID	OJ990617_10.0419.C9
Gene No.	111579	Strand	-
Start	428	End	532
Name	OJ990617_10.0419.C9.o1.gs	Method	GENSCAN
Start	428	End	532
GI	none	Score	.78
Exons	428..532		
Seq. No.	52890	Seq. ID	OJ990617_10.0419.C9
Gene No.	111580	Strand	-
Start	450	End	744
Name	OJ990617_10.0419.C9.o2.gp	Method	AAT/GAP
Start	450	End	744
GI	61605_3.R1084	Score	472
Exons	450..744		
GI Descrip.	'1402920/emb\|CAA66965\| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	52891	Seq. ID	OJ990617_10.0419.C12
Gene No.	111581	Strand	-
Start	1301	End	1394
Name	OJ990617_10.0419.C12.o1.gs	Method	GENSCAN
Start	1301	End	1394
GI	none	Score	.83
Exons	1301..1394		
Seq. No.	52892	Seq. ID	OJ990617_10.0419.C16
Gene No.	111582	Strand	+
Start	53	End	163
Name	OJ990617_10.0419.C16.o1.gs	Method	GENSCAN
Start	53	End	163
GI	none	Score	.98
Exons	53..163		
Seq. No.	52893	Seq. ID	OJ990617_10.0419.C20

Gene No.	111583	Strand	+
Start	1	End	1454
Name	OJ990617_10.0419.C20.o2.np	Method	AAT/NAP
Start	1	End	1454
GI	6069659	Score	123
Exons	1..23, 1315..1454		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	52893	Seq. ID	OJ990617_10.0419.C20
Gene No.	111583	Strand	+
Start	1	End	1454
Name	OJ990617_10.0419.C20.o1.np	Method	AAT/NAP
Start	619	End	1454
GI	6907088	Score	497
Exons	619..756, 933..1171, 1315..1454		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	52893	Seq. ID	OJ990617_10.0419.C20
Gene No.	111584	Strand	-
Start	1	End	304
Name	OJ990617_10.0419.C20.o1.gp	Method	AAT/GAP
Start	1	End	304
GI	38782_1.R1084	Score	488
Exons	1..304		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52894	Seq. ID	OJ990617_10.0419.C25
Gene No.	111585	Strand	+
Start	311	End	1861
Name	OJ990617_10.0419.C25.o1.gs	Method	GENSCAN
Start	311	End	1861
GI	none	Score	.51
Exons	311..423, 900..996, 1518..1861		

Seq. No.	52894	Seq. ID	OJ990617_10.0419.C25
Gene No.	111586	Strand	-
Start	821	End	881
Name	OJ990617_10.0419.C25.o1.gp	Method	AAT/GAP
Start	821	End	881
GI	56848_1.R1084	Score	84
Exons	821..881		
GI Descrip.	'6065749/emb\|CAB58423.1\| 6.0e-15 (AJ250341) beta-amylase enzyme [Arabidopsis thaliana]'		

Seq. No.	52894	Seq. ID	OJ990617_10.0419.C25
Gene No.	111587	Strand	-
Start	2461	End	2769
Name	OJ990617_10.0419.C25.o2.gs	Method	GENSCAN
Start	2461	End	2769
GI	none	Score	.84
Exons	2461..2498, 2718..2769		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o2.tw	Method	TBLASTX:Wheat

Start	1	End	409
GI	none	Score	55
Exons	1..84, 139..408, 338..409		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o1.gs	Method	GENSCAN
Start	16	End	1418
GI	none	Score	.88
Exons	16..709, 757..1418		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o2.ts	Method	TBLASTX:Soybean
Start	166	End	564
GI	none	Score	91
Exons	166..564, 344..460		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	187	End	519
GI	none	Score	76
Exons	187..411, 409..519		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	984	End	1382
GI	none	Score	40
Exons	984..1253, 1048..1137, 1174..1254, 1293..1382		

Seq. No.	52895	Seq. ID	OJ990617_10.0419.C31
Gene No.	111588	Strand	-
Start	16	End	1421
Name	OJ990617_10.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	1015	End	1421
GI	none	Score	140
Exons	1015..1269, 1017..1268, 1276..1419, 1290..1421		

Seq. No.	52896	Seq. ID	OJ990617_10.0419.C34
Gene No.	111589	Strand	-
Start	1	End	746
Name	OJ990617_10.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	746
GI	2459416	Score	578
Exons	1..746		
GI Descrip.	(AC002332) unknown protein [Arabidopsis thaliana]		

Seq. No.	52896	Seq. ID	OJ990617_10.0419.C34
Gene No.	111589	Strand	-
Start	1	End	746
Name	OJ990617_10.0419.C34.o1.ts	Method	TBLASTX:Soybean

Start	42	End	488
GI	none	Score	160
Exons	42..215, 43..213, 216..446, 241..417, 360..488		

Seq. No.	52896	Seq. ID	OJ990617_10.0419.C34
Gene No.	111589	Strand	-
Start	1	End	746
Name	OJ990617_10.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	45	End	504
GI	none	Score	40
Exons	45..98, 123..188, 156..215, 201..341, 244..342, 345..503, 349..504		

Seq. No.	52896	Seq. ID	OJ990617_10.0419.C34
Gene No.	111589	Strand	-
Start	1	End	746
Name	OJ990617_10.0419.C34.o1.gs	Method	GENSCAN
Start	75	End	746
GI	none	Score	.85
Exons	75..746		

Seq. No.	52897	Seq. ID	OJ990617_10.0419.C35
Gene No.	111590	Strand	+
Start	376	End	974
Name	OJ990617_10.0419.C35.o1.gs	Method	GENSCAN
Start	376	End	974
GI	none	Score	.67
Exons	376..504, 927..974		

Seq. No.	52898	Seq. ID	OJ990617_10.0419.C38
Gene No.	111591	Strand	+
Start	1	End	644
Name	OJ990617_10.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	644
GI	5803259	Score	691
Exons	1..644		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-
Start	1	End	2005
Name	OJ990617_10.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	2005
GI	6967112	Score	392
Exons	1..384, 472..697, 1956..2005		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-
Start	1	End	2005
Name	OJ990617_10.0419.C43.o1.gs	Method	GENSCAN
Start	7	End	1042
GI	none	Score	.67
Exons	7..347, 570..697, 914..1042		

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-

Start	1	End	2005
Name	OJ990617_10.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	180	End	700
GI	none	Score	186
Exons	180..395, 182..385, 255..386, 479..694, 503..700, 666..695	466..636, 466..636, 471..692,	

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-
Start	1	End	2005
Name	OJ990617_10.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	182	End	655
GI	none	Score	71
Exons	182..286, 299..385, 500..655,	504..605	

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-
Start	1	End	2005
Name	OJ990617_10.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	236	End	814
GI	none	Score	52
Exons	236..286, 290..385, 291..386, 788..814	491..694, 495..602, 645..695,	

Seq. No.	52899	Seq. ID	OJ990617_10.0419.C43
Gene No.	111592	Strand	-
Start	1	End	2005
Name	OJ990617_10.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	812	End	1213
GI	none	Score	64
Exons	812..1213, 822..926		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	1614
GI	7435338	Score	550
Exons	1..76, 892..1124, 1216..1326,	1444..1614	
GI Descrip.	probable Beta-Amylase - Arabidopsis thaliana		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.gs	Method	GENSCAN
Start	196	End	1570
GI	none	Score	.89
Exons	196..236, 914..1124, 1216..1326,	1444..1570	

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	902	End	1344
GI	none	Score	241
Exons	902..1090, 915..1097, 1215..1331,	1216..1329, 1219..1344	

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	902	End	1605
GI	none	Score	315
Exons	902..1126, 915..1115, 1215..1316, 1215..1334, 1216..1326, 1238..1318, 1441..1575, 1443..1574, 1570..1605		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	908	End	1605
GI	none	Score	245
Exons	908..1126, 915..1115, 1176..1325, 1215..1325, 1216..1350, 1441..1605, 1443..1601		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	911	End	1109
GI	none	Score	175
Exons	911..1090, 915..1109		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o1.gp	Method	AAT/GAP
Start	1255	End	1551
GI	2429006	Score	583
Exons	1255..1551		
GI Descrip.	6065749/emb\|CAB58423.1\| 6.0e-15 (AJ250341) beta-amylase enzyme [Arabidopsis thaliana]		

Seq. No.	52900	Seq. ID	OJ990617_10.0419.C44
Gene No.	111593	Strand	+
Start	1	End	1614
Name	OJ990617_10.0419.C44.o2.tc	Method	TBLASTX:Cress
Start	1441	End	1605
GI	none	Score	183
Exons	1441..1575, 1443..1574, 1555..1605		

Seq. No.	52901	Seq. ID	OJ990617_10.0419.C45
Gene No.	111594	Strand	+
Start	255	End	457
Name	OJ990617_10.0419.C45.o1.gs	Method	GENSCAN
Start	255	End	457
GI	none	Score	.71
Exons	255..402, 441..457		

Seq. No.	52901	Seq. ID	OJ990617_10.0419.C45
Gene No.	111595	Strand	-
Start	564	End	1002
Name	OJ990617_10.0419.C45.o2.gs	Method	GENSCAN
Start	564	End	1002

GI	none	Score	.99
Exons	564..671, 778..1002		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111596	Strand	+
Start	9235	End	16385
Name	OJ990617_10.0419.C54.o2.gs	Method	GENSCAN
Start	9235	End	16385
GI	none	Score	.68
Exons	9235..9399, 9815..9908, 11691..11853, 12059..12146, 12364..12511, 12548..12659, 12724..12885, 15689..15817, 16256..16385		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111597	Strand	-
Start	1	End	8775
Name	OJ990617_10.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	1667
GI	7248394	Score	2044
Exons	1..451, 702..982, 1026..1667		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111597	Strand	-
Start	1	End	8775
Name	OJ990617_10.0419.C54.o1.gs	Method	GENSCAN
Start	89	End	8775
GI	none	Score	.48
Exons	89..451, 836..982, 1282..1588, 1653..2029, 2060..2350, 3055..3318, 4058..4304, 4520..4831, 7160..7264, 8338..8404, 8627..8775		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	3	End	314
GI	none	Score	90
Exons	3..143, 3..314, 7..192, 62..313		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o1.tw	Method	TBLASTX:Wheat
Start	182	End	573
GI	none	Score	116
Exons	182..385, 225..464, 237..518, 256..525, 502..573, 515..556		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o2.tm	Method	TBLASTX:Maize
Start	315	End	525

GI	none	Score	62
Exons	315..461, 315..518, 316..525, 319..519		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o1.ts	Method	TBLASTX:Soybean
Start	1205	End	1561
GI	none	Score	200
Exons	1205..1561		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o2.np	Method	AAT/NAP
Start	15189	End	19111
GI	6063557	Score	398
Exons	15189..15240, 18432..18670, 18914..19111		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	52902	Seq. ID	OJ990617_10.0419.C54
Gene No.	111598	Strand	-
Start	15189	End	19117
Name	OJ990617_10.0419.C54.o3.gs	Method	GENSCAN
Start	17205	End	19117
GI	none	Score	.59
Exons	17205..17231, 17474..17552, 17578..17734, 17917..17986, 18111..18287, 18538..18692, 18958..19117		

Seq. No.	52903	Seq. ID	OJ990617_10.0419.C55
Gene No.	111599	Strand	+
Start	108	End	764
Name	OJ990617_10.0419.C55.o1.gs	Method	GENSCAN
Start	108	End	764
GI	none	Score	.7
Exons	108..362, 401..764		

Seq. No.	52903	Seq. ID	OJ990617_10.0419.C55
Gene No.	111599	Strand	+
Start	108	End	764
Name	OJ990617_10.0419.C55.o1.np	Method	AAT/NAP
Start	435	End	758
GI	6226695	Score	236
Exons	435..758		
GI Descrip.	60S ACIDIC RIBOSOMAL PROTEIN P2 (MINOR ALLERGEN CLA H 4) (CLA H IV)		

Seq. No.	52903	Seq. ID	OJ990617_10.0419.C55
Gene No.	111600	Strand	+
Start	2103	End	3408
Name	OJ990617_10.0419.C55.o2.np	Method	AAT/NAP
Start	2103	End	3408
GI	6815099	Score	72
Exons	2103..2129, 3292..3408		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	52903	Seq. ID	OJ990617_10.0419.C55

Gene No.	111601	Strand	-
Start	2674	End	6240
Name	OJ990617_10.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	426	End	614
GI	none	Score	188
Exons	426..614, 431..613		

Seq. No.	52903	Seq. ID	OJ990617_10.0419.C55
Gene No.	111601	Strand	-
Start	2674	End	6240
Name	OJ990617_10.0419.C55.o2.gs	Method	GENSCAN
Start	2674	End	6240
GI	none	Score	.65
Exons	2674..2777, 3776..3991, 5926..6060, 6099..6240		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111602	Strand	+
Start	188	End	2174
Name	OJ990617_10.0419.C57.o1.gs	Method	GENSCAN
Start	188	End	697
GI	none	Score	.71
Exons	188..697		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111602	Strand	+
Start	188	End	2174
Name	OJ990617_10.0419.C57.o1.np	Method	AAT/NAP
Start	213	End	2174
GI	5852179	Score	233
Exons	213..434, 508..738, 2121..2174		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o6.tm	Method	TBLASTX:Maize
Start	1426	End	1672
GI	none	Score	43
Exons	1426..1458, 1429..1458, 1460..1672, 1551..1646		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o2.gs	Method	GENSCAN
Start	1433	End	4927
GI	none	Score	.64
Exons	1433..2140, 2207..2409, 2557..2751, 2775..3523, 3910..4117, 4307..4455, 4863..4927		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o2.np	Method	AAT/NAP
Start	1436	End	6493
GI	4680179	Score	4430
Exons	1436..4614, 6332..6493		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o6.tw	Method	TBLASTX:Wheat
Start	1484	End	1814
GI	none	Score	143
Exons	1484..1813, 1533..1814		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	1676	End	2261
GI	none	Score	105
Exons	1676..2101, 1677..1874, 1697..1942, 1938..2102, 2099..2260, 2106..2261, 2109..2261		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o1.tw	Method	TBLASTX:Wheat
Start	1814	End	2440
GI	none	Score	45
Exons	1814..2440, 1815..1874, 1823..2377, 1935..2438		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o3.tm	Method	TBLASTX:Maize
Start	2309	End	2601
GI	none	Score	276
Exons	2309..2599, 2313..2600, 2313..2600, 2314..2601		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o2.ts	Method	TBLASTX:Soybean
Start	2399	End	2659
GI	none	Score	180
Exons	2399..2659, 2400..2648		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o1.tc	Method	TBLASTX:Cress
Start	2423	End	2770
GI	none	Score	85
Exons	2423..2566, 2424..2564, 2567..2770		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o3.tw	Method	TBLASTX:Wheat
Start	2447	End	2988
GI	none	Score	264
Exons	2447..2755, 2451..2729, 2731..2988, 2735..2806		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o2.tm	Method	TBLASTX:Maize
Start	3016	End	3369
GI	none	Score	204
Exons	3016..3369, 3023..3364		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o2.tw	Method	TBLASTX:Wheat
Start	3016	End	3441
GI	none	Score	223
Exons	3016..3366, 3016..3441, 3023..3439		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o3.ts	Method	TBLASTX:Soybean
Start	3187	End	3435
GI	none	Score	51
Exons	3187..3435, 3191..3250, 3305..3409		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o5.tm	Method	TBLASTX:Maize
Start	3376	End	3708
GI	none	Score	134
Exons	3376..3708, 3377..3655		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o5.tw	Method	TBLASTX:Wheat
Start	3442	End	3706
GI	none	Score	245
Exons	3442..3705, 3443..3706		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	3457	End	3852
GI	none	Score	178
Exons	3457..3708, 3467..3700, 3763..3816, 3773..3823, 3823..3852, 3824..3850		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o4.tm	Method	TBLASTX:Maize
Start	3763	End	4209
GI	none	Score	69
Exons	3763..3888, 3894..4205, 3967..4209		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o4.tw	Method	TBLASTX:Wheat
Start	3793	End	4278
GI	none	Score	282
Exons	3793..3888, 3859..4278, 3877..4062, 3888..4274		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o4.ts	Method	TBLASTX:Soybean
Start	3924	End	4238
GI	none	Score	183
Exons	3924..4238		

Seq. No.	52904	Seq. ID	OJ990617_10.0419.C57
Gene No.	111603	Strand	-
Start	1433	End	6493
Name	OJ990617_10.0419.C57.o7.tm	Method	TBLASTX:Maize
Start	4210	End	4373
GI	none	Score	140
Exons	4210..4365, 4212..4373		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111604	Strand	+
Start	5079	End	6999
Name	OJ990617_10.0419.C58.o3.np	Method	AAT/NAP
Start	5079	End	6999
GI	5852179	Score	203
Exons	5079..5315, 5374..5590, 6935..6999		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111605	Strand	-
Start	648	End	3392
Name	OJ990617_10.0419.C58.o1.np	Method	AAT/NAP
Start	648	End	1744
GI	6983860	Score	1697
Exons	648..1744		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111605	Strand	-
Start	648	End	3392
Name	OJ990617_10.0419.C58.o1.gs	Method	GENSCAN
Start	652	End	3392
GI	none	Score	.51
Exons	652..867, 1006..1744, 2073..2386, 2512..2821, 3375..3392		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111605	Strand	-
Start	648	End	3392
Name	OJ990617_10.0419.C58.o2.np	Method	AAT/NAP
Start	2026	End	2821

GI	4512231	Score	1129
Exons	2026..2821		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111606	Strand	-
Start	5166	End	5950
Name	OJ990617_10.0419.C58.o3.tw	Method	TBLASTX:Wheat
Start	569	End	811
GI	none	Score	77
Exons	569..676, 570..665, 743..811, 765..806		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111606	Strand	-
Start	5166	End	5950
Name	OJ990617_10.0419.C58.o1.tw	Method	TBLASTX:Wheat
Start	1010	End	1339
GI	none	Score	72
Exons	1010..1336, 1142..1339		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111606	Strand	-
Start	5166	End	5950
Name	OJ990617_10.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	1031	End	1336
GI	none	Score	83
Exons	1031..1336, 1127..1336		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111606	Strand	-
Start	5166	End	5950
Name	OJ990617_10.0419.C58.o2.tw	Method	TBLASTX:Wheat
Start	1388	End	1586
GI	none	Score	57
Exons	1388..1561, 1388..1570, 1389..1586		

Seq. No.	52905	Seq. ID	OJ990617_10.0419.C58
Gene No.	111606	Strand	-
Start	5166	End	5950
Name	OJ990617_10.0419.C58.o2.gs	Method	GENSCAN
Start	5166	End	5950
GI	none	Score	.69
Exons	5166..5293, 5326..5520, 5662..5757, 5815..5950		

Seq. No.	52906	Seq. ID	OJ990617_10.0419.C59
Gene No.	111607	Strand	+
Start	655	End	784
Name	OJ990617_10.0419.C59.o1.gs	Method	GENSCAN
Start	655	End	784
GI	none	Score	.51
Exons	655..784		

Seq. No.	52906	Seq. ID	OJ990617_10.0419.C59
Gene No.	111608	Strand	-
Start	775	End	1126
Name	OJ990617_10.0419.C59.o1.gp	Method	AAT/GAP
Start	775	End	1126

GI	5803303	Score	663
Exons	775..1126		

Seq. No.	52907	Seq. ID	OJ990617_10.0419.C61
Gene No.	111609	Strand	+
Start	1775	End	1858
Name	OJ990617_10.0419.C61.o1.gp	Method	AAT/GAP
Start	1775	End	1858
GI	none	Score	134
Exons	1775..1858		

Seq. No.	52907	Seq. ID	OJ990617_10.0419.C61
Gene No.	111610	Strand	-
Start	1280	End	1652
Name	OJ990617_10.0419.C61.o1.gs	Method	GENSCAN
Start	1280	End	1652
GI	none	Score	.88
Exons	1280..1506, 1538..1652		

Seq. No.	52908	Seq. ID	OJ990617_10.0419.C65
Gene No.	111611	Strand	+
Start	1	End	325
Name	OJ990617_10.0419.C65.o1.gp	Method	AAT/GAP
Start	1	End	325
GI	56848_1.R1084	Score	615
Exons	1..325		
GI Descrip.	'6065749/emb\|CAB58423.1\| 6.0e-15 (AJ250341) beta-amylase enzyme [Arabidopsis thaliana]'		

Seq. No.	52908	Seq. ID	OJ990617_10.0419.C65
Gene No.	111612	Strand	-
Start	868	End	979
Name	OJ990617_10.0419.C65.o1.tm	Method	TBLASTX:Maize
Start	295	End	551
GI	none	Score	141
Exons	295..393, 297..392, 468..551, 469..549		

Seq. No.	52908	Seq. ID	OJ990617_10.0419.C65
Gene No.	111612	Strand	-
Start	868	End	979
Name	OJ990617_10.0419.C65.o2.gp	Method	AAT/GAP
Start	868	End	979
GI	56847_1.R1084	Score	224
Exons	868..979		
GI Descrip.	'2459419 3.0e-28 (AC002332) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.gp	Method	AAT/GAP
Start	1	End	2335
GI	416_2.R1084	Score	692
Exons	1..47, 136..177, 2028..2335		
GI Descrip.	'5852170/emb\|AL117265.1\|OST17804 1.0e-149 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.tm	Method	TBLASTX:Maize
Start	1	End	2315
GI	none	Score	82
Exons	1..54, 2..49, 3..50, 131..184, 135..182, 136..183, 2024..2287, 2027..2131, 2029..2292, 2186..2314, 2268..2315, 2268..2315		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.tw	Method	TBLASTX:Wheat
Start	1	End	2309
GI	none	Score	73
Exons	1..54, 2..49, 131..184, 135..209, 2024..2287, 2029..2292, 2186..2308, 2262..2309		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.np	Method	AAT/NAP
Start	1	End	2325
GI	2459420	Score	580
Exons	1..47, 136..177, 2028..2325		
GI Descrip.	(AC002332) 60S ribosomal protein L23 [Arabidopsis thaliana]		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.ts	Method	TBLASTX:Soybean
Start	1	End	2315
GI	none	Score	59
Exons	1..48, 1..54, 5..49, 131..184, 135..182, 136..183, 2024..2287, 2029..2307, 2029..2292, 2186..2314, 2265..2315		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.tc	Method	TBLASTX:Cress
Start	10	End	2292
GI	none	Score	358
Exons	10..54, 137..184, 2024..2287, 2026..2292		

Seq. No.	52909	Seq. ID	OJ990617_10.0419.C66
Gene No.	111613	Strand	-
Start	1	End	2335
Name	OJ990617_10.0419.C66.o1.gs	Method	GENSCAN
Start	136	End	2312
GI	none	Score	.42
Exons	136..177, 2028..2312		

Seq. No.	52910	Seq. ID	OJ990617_10.0419.C69
Gene No.	111614	Strand	-
Start	248	End	1457
Name	OJ990617_10.0419.C69.o1.gs	Method	GENSCAN
Start	248	End	1457

GI	none	Score	.54
Exons	248..382, 987..1053, 1096..1225, 1231..1431, 1442..1457		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111615	Strand	+
Start	1	End	463
Name	OJ990617_10.0419.C70.o1.np	Method	AAT/NAP
Start	1	End	463
GI	6069646	Score	197
Exons	1..463		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi\|6907112\|dbj\|BAA90639.1\| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111616	Strand	+
Start	1872	End	2851
Name	OJ990617_10.0419.C70.o2.np	Method	AAT/NAP
Start	1872	End	2851
GI	7339719	Score	82
Exons	1872..2060, 2788..2851		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111617	Strand	-
Start	2631	End	2851
Name	OJ990617_10.0419.C70.o1.tm	Method	TBLASTX:Maize
Start	2	End	255
GI	none	Score	262
Exons	2..250, 4..255		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111617	Strand	-
Start	2631	End	2851
Name	OJ990617_10.0419.C70.o1.tw	Method	TBLASTX:Wheat
Start	5	End	337
GI	none	Score	150
Exons	5..169, 290..337		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111617	Strand	-
Start	2631	End	2851
Name	OJ990617_10.0419.C70.o3.np	Method	AAT/NAP
Start	2631	End	2851
GI	4417283	Score	166
Exons	2631..2851		
GI Descrip.	(AC007019) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	52911	Seq. ID	OJ990617_10.0419.C70
Gene No.	111617	Strand	-
Start	2631	End	2851
Name	OJ990617_10.0419.C70.o1.tc	Method	TBLASTX:Cress
Start	2643	End	2849
GI	none	Score	69
Exons	2643..2849, 2758..2847		

Seq. No.	52912	Seq. ID	OJ990617_10.0419.C83
Gene No.	111618	Strand	-
Start	880	End	1013
Name	OJ990617_10.0419.C83.o1.gs	Method	GENSCAN
Start	880	End	1013
GI	none	Score	.79
Exons	880..1013		

Seq. No.	52913	Seq. ID	OJ990617_10.0419.C86
Gene No.	111619	Strand	+
Start	1	End	1025
Name	OJ990617_10.0419.C86.o1.np	Method	AAT/NAP
Start	1	End	1025
GI	4544372	Score	435
Exons	1..1025		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52913	Seq. ID	OJ990617_10.0419.C86
Gene No.	111620	Strand	-
Start	252	End	1963
Name	OJ990617_10.0419.C86.o2.ts	Method	TBLASTX:Soybean
Start	43	End	444
GI	none	Score	204
Exons	43..444, 150..344		

Seq. No.	52913	Seq. ID	OJ990617_10.0419.C86
Gene No.	111620	Strand	-
Start	252	End	1963
Name	OJ990617_10.0419.C86.o1.gs	Method	GENSCAN
Start	252	End	1963
GI	none	Score	.42
Exons	252..454, 601..659, 1237..1431, 1913..1963		

Seq. No.	52913	Seq. ID	OJ990617_10.0419.C86
Gene No.	111620	Strand	-
Start	252	End	1963
Name	OJ990617_10.0419.C86.o1.ts	Method	TBLASTX:Soybean
Start	786	End	1031
GI	none	Score	251
Exons	786..1031, 833..916, 992..1027		

Seq. No.	52914	Seq. ID	OJ990617_10.0419.C87
Gene No.	111621	Strand	-
Start	529	End	1050
Name	OJ990617_10.0419.C87.o1.gp	Method	AAT/GAP
Start	529	End	1050
GI	LIB3434-038-P1-K1-F1	Score	768
Exons	529..1050		
GI Descrip.	'5257255/dbj\|AP000364.1\|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	52915	Seq. ID	OJ990617_10.0419.C89
Gene No.	111622	Strand	+
Start	1	End	878
Name	OJ990617_10.0419.C89.o1.np	Method	AAT/NAP

Start	1	End	157
GI	7430715	Score	106
Exons	1..157		
GI Descrip.	cytochrome P450 homolog T20D16.19 - Arabidopsis thaliana gi\|2642443\|gb\|AAB87111.1\| (AC002391) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	52915	Seq. ID	OJ990617_10.0419.C89
Gene No.	111622	Strand	+
Start	1	End	878
Name	OJ990617_10.0419.C89.o1.gs	Method	GENSCAN
Start	2	End	878
GI	none	Score	.66
Exons	2..127, 699..878		

Seq. No.	52915	Seq. ID	OJ990617_10.0419.C89
Gene No.	111623	Strand	-
Start	61	End	380
Name	OJ990617_10.0419.C89.o1.gp	Method	AAT/GAP
Start	61	End	380
GI	none	Score	603
Exons	61..380		

Seq. No.	52915	Seq. ID	OJ990617_10.0419.C89
Gene No.	111624	Strand	-
Start	772	End	1088
Name	OJ990617_10.0419.C89.o2.gp	Method	AAT/GAP
Start	772	End	1088
GI	none	Score	549
Exons	772..1088		

Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.np	Method	AAT/NAP
Start	658	End	1289
GI	7430718	Score	557
Exons	658..1289		
GI Descrip.	cytochrome P450 homolog F23K16.120 - Arabidopsis thaliana gi\|5042165\|emb\|CAB44684.1\| (AL078620) cytochrome P450-like protein [Arabidopsis thaliana] gi\|7270933\|emb\|CAB80612.1\| (AL161595) cytochrome P450-like protein [Arabidopsis thaliana]		

Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.gs	Method	GENSCAN
Start	668	End	1281
GI	none	Score	.8
Exons	668..1281		

Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.tc	Method	TBLASTX:Cress
Start	688	End	1131
GI	none	Score	244

Exons	688..1131, 689..1021		
Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.ts	Method	TBLASTX:Soybean
Start	688	End	1281
GI	none	Score	77
Exons	688..882, 689..859, 883..1119, 884..1129, 1153..1281, 1154..1279		
Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.tm	Method	TBLASTX:Maize
Start	688	End	1233
GI	none	Score	57
Exons	688..888, 806..859, 883..1128, 889..1134, 890..1144, 1156..1233, 1164..1232, 1165..1233		
Seq. No.	52916	Seq. ID	OJ990617_10.0419.C90
Gene No.	111625	Strand	-
Start	658	End	1289
Name	OJ990617_10.0419.C90.o1.tw	Method	TBLASTX:Wheat
Start	903	End	1281
GI	none	Score	147
Exons	903..1073, 904..1128, 904..1125, 1141..1281		
Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91
Gene No.	111626	Strand	+
Start	1660	End	1985
Name	OJ990617_10.0419.C91.o2.np	Method	AAT/NAP
Start	1660	End	1985
GI	7523502	Score	212
Exons	1660..1985		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91
Gene No.	111627	Strand	-
Start	1	End	1865
Name	OJ990617_10.0419.C91.o1.np	Method	AAT/NAP
Start	1	End	558
GI	7430715	Score	368
Exons	1..558		
GI Descrip.	cytochrome P450 homolog T20D16.19 - Arabidopsis thaliana gi\|2642443\|gb\|AAB87111.1\| (AC002391) putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91
Gene No.	111627	Strand	-
Start	1	End	1865
Name	OJ990617_10.0419.C91.o1.tm	Method	TBLASTX:Maize
Start	1	End	519
GI	none	Score	61
Exons	1..42, 2..43, 2..223, 46..222, 212..322, 223..330, 223..330, 343..519		
Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91

Gene No.	111627	Strand	-
Start	1	End	1865
Name	OJ990617_10.0419.C91.o1.ts	Method	TBLASTX:Soybean
Start	2	End	504
GI	none	Score	54
Exons	2..217, 4..213, 223..339, 226..330, 328..504, 395..463		

Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91
Gene No.	111627	Strand	-
Start	1	End	1865
Name	OJ990617_10.0419.C91.o1.tc	Method	TBLASTX:Cress
Start	4	End	459
GI	none	Score	82
Exons	4..309, 167..322, 370..459		

Seq. No.	52917	Seq. ID	OJ990617_10.0419.C91
Gene No.	111627	Strand	-
Start	1	End	1865
Name	OJ990617_10.0419.C91.o1.gs	Method	GENSCAN
Start	97	End	1865
GI	none	Score	.44
Exons	97..508, 998..1051, 1666..1865		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.gp	Method	AAT/GAP
Start	578	End	1008
GI	3767021	Score	791
Exons	578..1008		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.np	Method	AAT/NAP
Start	770	End	1100
GI	7430715	Score	296
Exons	770..1100		
GI Descrip.	cytochrome P450 homolog T20D16.19 - Arabidopsis thaliana gi\|2642443\|gb\|AAB87111.1\| (AC002391) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.gs	Method	GENSCAN
Start	779	End	1063
GI	none	Score	.78
Exons	779..1063		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.tc	Method	TBLASTX:Cress
Start	782	End	1093
GI	none	Score	166
Exons	782..1093, 792..1076		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.tm	Method	TBLASTX:Maize
Start	782	End	1093
GI	none	Score	95
Exons	782..1003, 798..1004, 868..1047, 1004..1093, 1005..1079		

Seq. No.	52918	Seq. ID	OJ990617_10.0419.C96
Gene No.	111628	Strand	-
Start	779	End	1100
Name	OJ990617_10.0419.C96.o1.ts	Method	TBLASTX:Soybean
Start	821	End	1093
GI	none	Score	143
Exons	821..1093, 825..1079		

Seq. No.	52919	Seq. ID	OJ990617_10.0419.C97
Gene No.	111629	Strand	+
Start	279	End	403
Name	OJ990617_10.0419.C97.o1.gs	Method	GENSCAN
Start	279	End	403
GI	none	Score	.59
Exons	279..403		

Seq. No.	52920	Seq. ID	OJ990617_10.0419.C108
Gene No.	111630	Strand	+
Start	127	End	1265
Name	OJ990617_10.0419.C108.o1.gs	Method	GENSCAN
Start	127	End	1265
GI	none	Score	.53
Exons	127..316, 799..957, 1040..1265		

Seq. No.	52920	Seq. ID	OJ990617_10.0419.C108
Gene No.	111631	Strand	-
Start	1	End	1240
Name	OJ990617_10.0419.C108.o1.np	Method	AAT/NAP
Start	1	End	1240
GI	7340884	Score	157
Exons	1..255, 769..851, 899..1240		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52921	Seq. ID	OJ990617_10.0419.C109
Gene No.	111632	Strand	-
Start	1	End	1282
Name	OJ990617_10.0419.C109.o1.np	Method	AAT/NAP
Start	1	End	1190
GI	7106512	Score	457
Exons	1..23, 750..1190		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52921	Seq. ID	OJ990617_10.0419.C109
Gene No.	111632	Strand	-
Start	1	End	1282
Name	OJ990617_10.0419.C109.o1.gs	Method	GENSCAN

Start	842	End	1282
GI	none	Score	.6
Exons	842..1282		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o1.np	Method	AAT/NAP
Start	1	End	792
GI	7106512	Score	195
Exons	1..52, 533..659, 732..792		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o1.gs	Method	GENSCAN
Start	441	End	3836
GI	none	Score	.48
Exons	441..659, 1991..2186, 2987..3079, 3102..3391, 3495..3836		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o1.gp	Method	AAT/GAP
Start	689	End	936
GI	3761181	Score	450
Exons	689..936		
GI Descrip.	4521193/dbj\|AB013450.1\|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o2.np	Method	AAT/NAP
Start	2177	End	3880
GI	5902369	Score	228
Exons	2177..2278, 3018..3079, 3219..3391, 3495..3880		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana]		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o1.ts	Method	TBLASTX:Soybean
Start	3219	End	3614
GI	none	Score	140
Exons	3219..3371, 3221..3388, 3221..3385, 3269..3400, 3490..3567, 3495..3614		

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o1.tm	Method	TBLASTX:Maize
Start	3221	End	3602
GI	none	Score	92
Exons	3221..3391, 3227..3367, 3228..3386, 3260..3400, 3287..3400,		

3489..3602, 3494..3562

Seq. No.	52922	Seq. ID	OJ990617_10.0419.C110
Gene No.	111633	Strand	-
Start	1	End	3880
Name	OJ990617_10.0419.C110.o2.gp	Method	AAT/GAP
Start	3482	End	3873
GI	2311487	Score	569
Exons	3482..3873		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111634	Strand	+
Start	66	End	2318
Name	OJ990617_10.0419.C111.o1.gs	Method	GENSCAN
Start	66	End	2193
GI	none	Score	.6
Exons	66..86, 184..2193		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111634	Strand	+
Start	66	End	2318
Name	OJ990617_10.0419.C111.o1.np	Method	AAT/NAP
Start	283	End	2318
GI	4580990	Score	801
Exons	283..360, 634..1816, 1844..2318		
GI Descrip.	(AF120335) putative transposase [Arabidopsis thaliana]		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111635	Strand	-
Start	1	End	484
Name	OJ990617_10.0419.C111.o1.gp	Method	AAT/GAP
Start	1	End	484
GI	5803303	Score	927
Exons	1..484		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o2.tm	Method	TBLASTX:Maize
Start	631	End	843
GI	none	Score	226
Exons	631..843, 631..801		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o2.ts	Method	TBLASTX:Soybean
Start	637	End	1107
GI	none	Score	115
Exons	637..819, 832..1107		

Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o1.tm	Method	TBLASTX:Maize
Start	853	End	2217
GI	none	Score	166

Exons	853..1065, 1048..1650, 1657..1743, 2008..2139, 2098..2217		
Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o1.ts	Method	TBLASTX:Soybean
Start	1126	End	1749
GI	none	Score	217
Exons	1126..1650, 1657..1749		
Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o1.tw	Method	TBLASTX:Wheat
Start	1135	End	1443
GI	none	Score	175
Exons	1135..1230, 1138..1443		
Seq. No.	52923	Seq. ID	OJ990617_10.0419.C111
Gene No.	111636	Strand	
Start	631	End	2223
Name	OJ990617_10.0419.C111.o3.ts	Method	TBLASTX:Soybean
Start	2014	End	2223
GI	none	Score	203
Exons	2014..2223, 2031..2222		
Seq. No.	52924	Seq. ID	OJ990617_10.0419.C112
Gene No.	111637	Strand	-
Start	405	End	1061
Name	OJ990617_10.0419.C112.o1.gs	Method	GENSCAN
Start	405	End	1061
GI	none	Score	.5
Exons	405..523, 736..902, 1013..1061		
Seq. No.	52925	Seq. ID	OJ990617_10.0419.C113
Gene No.	111638	Strand	-
Start	1156	End	4376
Name	OJ990617_10.0419.C113.o1.gs	Method	GENSCAN
Start	1156	End	4293
GI	none	Score	.75
Exons	1156..1344, 1444..1542, 1638..1710, 2016..2189, 2278..2459, 2637..2963, 3093..3311, 3403..3510, 3523..4293		
Seq. No.	52925	Seq. ID	OJ990617_10.0419.C113
Gene No.	111638	Strand	-
Start	1156	End	4376
Name	OJ990617_10.0419.C113.o1.np	Method	AAT/NAP
Start	1180	End	4376
GI	4680204	Score	815
Exons	1180..1344, 1746..1922, 2016..2189, 2278..3311, 3403..4376		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	52925	Seq. ID	OJ990617_10.0419.C113
Gene No.	111638	Strand	-
Start	1156	End	4376
Name	OJ990617_10.0419.C113.o2.tw	Method	TBLASTX:Wheat
Start	3099	End	3792

GI	none	Score	60
Exons	3099..3317, 3400..3471, 3529..3690, 3712..3792		
Seq. No.	52925	Seq. ID	OJ990617_10.0419.C113
Gene No.	111638	Strand	-
Start	1156	End	4376
Name	OJ990617_10.0419.C113.o1.tw	Method	TBLASTX:Wheat
Start	3793	End	4194
GI	none	Score	78
Exons	3793..3963, 3794..3910, 3953..4093, 3958..4194, 4000..4194		
Seq. No.	52926	Seq. ID	OJ990617_10.0419.C114
Gene No.	111639	Strand	+
Start	966	End	1124
Name	OJ990617_10.0419.C114.o1.gs	Method	GENSCAN
Start	966	End	1124
GI	none	Score	.66
Exons	966..1124		
Seq. No.	52926	Seq. ID	OJ990617_10.0419.C114
Gene No.	111640	Strand	-
Start	415	End	497
Name	OJ990617_10.0419.C114.o1.gp	Method	AAT/GAP
Start	415	End	497
GI	LIB3477-003-P1-K1-E9	Score	114
Exons	415..497		
GI Descrip.	'2498586/sp\|Q40638\|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111641	Strand	+
Start	5092	End	9475
Name	OJ990617_10.0419.C115.o2.gs	Method	GENSCAN
Start	5092	End	9475
GI	none	Score	.62
Exons	5092..5103, 5151..5230, 6643..6915, 8078..8180, 9212..9475		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111641	Strand	+
Start	5092	End	9475
Name	OJ990617_10.0419.C115.o2.np	Method	AAT/NAP
Start	6856	End	8305
GI	7228450	Score	288
Exons	6856..6974, 7769..7854, 7988..8129, 8192..8305		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111642	Strand	-
Start	816	End	5306
Name	OJ990617_10.0419.C115.o1.np	Method	AAT/NAP
Start	672	End	5306
GI	4680203	Score	3225
Exons	672..1649, 1925..2155, 2309..3982, 5270..5306		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115

Gene No.	111642	Strand	-
Start	816	End	5306
Name	OJ990617_10.0419.C115.o1.gs	Method	GENSCAN
Start	816	End	3745
GI	none	Score	.49
Exons	816..1613, 2066..2244, 2377..2538, 2752..3745		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o1.tw	Method	TBLASTX:Wheat
Start	726	End	2047
GI	none	Score	46
Exons	726..815, 727..792, 819..887, 835..888, 894..1010, 894..1040, 937..1041, 988..1083, 1020..1079, 1085..1132, 1086..1133, 1125..1787, 1141..1788, 1318..1791, 1779..2042, 1784..2041, 1862..2047		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o1.tc	Method	TBLASTX:Cress
Start	1308	End	1755
GI	none	Score	105
Exons	1308..1457, 1308..1751, 1312..1755, 1318..1755		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o2.tm	Method	TBLASTX:Maize
Start	1686	End	1999
GI	none	Score	51
Exons	1686..1787, 1714..1785, 1782..1982, 1784..1999		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o3.tw	Method	TBLASTX:Wheat
Start	2048	End	2453
GI	none	Score	70
Exons	2048..2128, 2049..2129, 2049..2132, 2054..2134, 2161..2373, 2162..2404, 2202..2384, 2390..2452, 2403..2453		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o2.ts	Method	TBLASTX:Soybean
Start	2486	End	2722
GI	none	Score	197
Exons	2486..2722		

Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o1.tm	Method	TBLASTX:Maize
Start	2558	End	3016
GI	none	Score	108

Exons	2558..2752, 2762..3016, 2762..3004		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o2.tw	Method	TBLASTX:Wheat
Start	2592	End	3061
GI	none	Score	167
Exons	2592..2798, 2592..2801, 2597..2800, 2597..2821, 2799..2891, 2801..2899, 2802..2894, 2903..3007, 2907..3008, 3005..3061, 3009..3053		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o2.tc	Method	TBLASTX:Cress
Start	2849	End	3212
GI	none	Score	84
Exons	2849..3190, 2868..2996, 3045..3212		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o1.ts	Method	TBLASTX:Soybean
Start	2930	End	3359
GI	none	Score	97
Exons	2930..3226, 2943..3194, 3276..3359, 3284..3358		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o4.tw	Method	TBLASTX:Wheat
Start	3280	End	3676
GI	none	Score	204
Exons	3280..3522, 3288..3530, 3290..3532, 3291..3533, 3524..3676, 3538..3657		
Seq. No.	52927	Seq. ID	OJ990617_10.0419.C115
Gene No.	111643	Strand	-
Start	9915	End	11264
Name	OJ990617_10.0419.C115.o3.gs	Method	GENSCAN
Start	9915	End	11264
GI	none	Score	.4
Exons	9915..9940, 11237..11264		
Seq. No.	52928	Seq. ID	OJ990617_10.0419.C116
Gene No.	111644	Strand	+
Start	234	End	1655
Name	OJ990617_10.0419.C116.o1.gs	Method	GENSCAN
Start	234	End	1655
GI	none	Score	.58
Exons	234..289, 620..751, 884..1003, 1434..1655		
Seq. No.	52929	Seq. ID	OJ990617_10.0419.C121
Gene No.	111645	Strand	+
Start	357	End	574
Name	OJ990617_10.0419.C121.o1.gs	Method	GENSCAN

Start	357	End	574
GI	none	Score	.5
Exons	357..574		

Seq. No.	52929	Seq. ID	OJ990617_10.0419.C121
Gene No.	111646	Strand	-
Start	1	End	731
Name	OJ990617_10.0419.C121.o1.np	Method	AAT/NAP
Start	1	End	731
GI	4680204	Score	443
Exons	1..731		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52929	Seq. ID	OJ990617_10.0419.C121
Gene No.	111646	Strand	-
Start	1	End	731
Name	OJ990617_10.0419.C121.o1.tw	Method	TBLASTX:Wheat
Start	3	End	274
GI	none	Score	73
Exons	3..266, 33..236, 112..273, 140..274		

Seq. No.	52930	Seq. ID	OJ990617_10.0419.C131
Gene No.	111647	Strand	-
Start	154	End	832
Name	OJ990617_10.0419.C131.o1.gs	Method	GENSCAN
Start	154	End	832
GI	none	Score	.46
Exons	154..273, 767..832		

Seq. No.	52931	Seq. ID	OJ990617_10.0419.C134
Gene No.	111648	Strand	-
Start	272	End	338
Name	OJ990617_10.0419.C134.o1.gs	Method	GENSCAN
Start	272	End	338
GI	none	Score	.49
Exons	272..338		

Seq. No.	52932	Seq. ID	OJ990617_10.0419.C137
Gene No.	111649	Strand	+
Start	1	End	645
Name	OJ990617_10.0419.C137.o1.np	Method	AAT/NAP
Start	1	End	645
GI	7248395	Score	490
Exons	1..57, 109..645		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	52933	Seq. ID	OJ990617_10.0419.C138
Gene No.	111650	Strand	+
Start	101	End	331
Name	OJ990617_10.0419.C138.o1.gs	Method	GENSCAN
Start	101	End	331
GI	none	Score	.74
Exons	101..331		

Seq. No.	52933	Seq. ID	OJ990617_10.0419.C138
Gene No.	111651	Strand	+
Start	3928	End	6209

Name	OJ990617_10.0419.C138.o3.gs	Method	GENSCAN
Start	3928	End	6140
GI	none	Score	.92
Exons	3928..4275, 4317..4349, 5984..6140		

Seq. No.	52933	Seq. ID	OJ990617_10.0419.C138
Gene No.	111651	Strand	+
Start	3928	End	6209
Name	OJ990617_10.0419.C138.o1.np	Method	AAT/NAP
Start	4093	End	6209
GI	7485534	Score	181
Exons	4093..4275, 5502..5585, 5984..6209		
GI Descrip.	hypothetical protein F16A16.200 - Arabidopsis thaliana (fragment) gi\|4218129\|emb\|CAA22983.1\| (AL035353) hypothetical protein [Arabidopsis thaliana] gi\|7269724\|emb\|CAB81457.1\| (AL161573) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.tc	Method	TBLASTX:Cress
Start	423	End	697
GI	none	Score	167
Exons	423..611, 437..697, 442..696		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.tm	Method	TBLASTX:Maize
Start	428	End	756
GI	none	Score	177
Exons	428..697, 429..611, 437..754, 448..756, 657..755		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.ts	Method	TBLASTX:Soybean
Start	428	End	697
GI	none	Score	421
Exons	428..697, 437..697		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.np	Method	AAT/NAP
Start	429	End	694
GI	3885884	Score	408
Exons	429..694		
GI Descrip.	(AF093630) 60S ribosomal protein L21 [Oryza sativa]		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.tw	Method	TBLASTX:Wheat
Start	429	End	745
GI	none	Score	158
Exons	429..611, 436..738, 437..745, 439..741		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.gp	Method	AAT/GAP
Start	435	End	863
GI	892_1.R1084	Score	806
Exons	435..863		
GI Descrip.	'3885884 7.0e-91 (AF093630) 60S ribosomal protein L21 [Oryza sativa]'		

Seq. No.	52934	Seq. ID	OJ990617_10.0419.C140
Gene No.	111652	Strand	+
Start	429	End	863
Name	OJ990617_10.0419.C140.o1.gs	Method	GENSCAN
Start	440	End	697
GI	none	Score	.96
Exons	440..697		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111653	Strand	+
Start	9189	End	12326
Name	OJ990617_10.0419.C150.o1.np	Method	AAT/NAP
Start	9189	End	12326
GI	5739323	Score	1292
Exons	9189..9468, 9556..9779, 10018..10692, 10843..11288, 11342..12326		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111654	Strand	+
Start	15542	End	16850
Name	OJ990617_10.0419.C150.o4.np	Method	AAT/NAP
Start	15542	End	16850
GI	5777617	Score	103
Exons	15542..15566, 16714..16850		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111655	Strand	-
Start	211	End	3328
Name	OJ990617_10.0419.C150.o1.gs	Method	GENSCAN
Start	211	End	3328
GI	none	Score	.63
Exons	211..575, 653..721, 1037..1378, 1699..2941, 3021..3328		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247
Name	OJ990617_10.0419.C150.o2.tc	Method	TBLASTX:Cress
Start	9276	End	9452
GI	none	Score	183
Exons	9276..9452		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247

Name	OJ990617_10.0419.C150.o1.ts	Method	TBLASTX:Soybean
Start	9608	End	12047
GI	none	Score	76
Exons	9608..9760, 9615..9758, 9615..9758, 9618..9758, 9627..9758, 10279..10458, 10285..10458, 10312..10458, 10312..10458, 10501..10695, 10507..10698, 10507..10704, 10518..10694, 10536..10703, 11149..11268, 11152..11268, 11343..11462, 11343..11462, 11352..11462, 11352..11462, 11496..11663, 11499..11663, 11499..11663, 11562..11663, 11655..12008, 11751..12005, 11856..12008, 11856..12008, 11877..12005, 11934..12047		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247
Name	OJ990617_10.0419.C150.o1.tc	Method	TBLASTX:Cress
Start	9615	End	12095
GI	none	Score	77
Exons	9615..9758, 9618..9758, 9627..9761, 9633..9758, 9633..9758, 10279..10458, 10312..10458, 10312..10485, 10492..10647, 10507..10695, 10507..10695, 10507..10701, 10507..10704, 10516..10695, 10516..10695, 10516..10704, 10522..10701, 10539..10688, 10816..10920, 11149..11292, 11149..11268, 11149..11268, 11149..11268, 11152..11268, 11337..11459, 11337..11477, 11337..11471, 11343..11462, 11343..11465, 11352..11390, 11352..11462, 11355..11462, 11493..11639, 11496..11630, 11496..11663, 11496..11609, 11499..11618, 11499..11621, 11505..11600, 11505..11663, 11682..11798, 11721..11798, 11721..11798, 11724..11798, 11754..11798, 11771..11944, 11814..11987, 11822..12007, 11856..12005, 11856..12005, 11856..12005, 11856..12008, 11856..12005, 11856..12008, 11856..12005, 11856..12002, 11856..11951, 11856..12005, 11892..12050, 11892..12005, 12048..12095		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247
Name	OJ990617_10.0419.C150.o1.tm	Method	TBLASTX:Maize
Start	9618	End	12107
GI	none	Score	76
Exons	9618..9758, 10495..10695, 10507..10632, 10543..10695, 11164..11268, 11343..11462, 11349..11471, 11745..12032, 11752..11928, 11771..12034, 11777..12004, 12051..12107		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247
Name	OJ990617_10.0419.C150.o1.tw	Method	TBLASTX:Wheat
Start	10282	End	12011
GI	none	Score	241
Exons	10282..10653, 10311..10637, 10588..10701, 11149..11253, 11340..11477, 11751..11798, 11856..11990, 11886..12011, 11895..11996		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247

Name	OJ990617_10.0419.C150.o4.gs	Method	GENSCAN
Start	13324	End	16247
GI	none	Score	.52
Exons	13324..13440, 15436..15596, 15616..15802, 16155..16247		

Seq. No.	52935	Seq. ID	OJ990617_10.0419.C150
Gene No.	111656	Strand	-
Start	13324	End	16247
Name	OJ990617_10.0419.C150.o2.np	Method	AAT/NAP
Start	13356	End	14487
GI	7340920	Score	187
Exons	13356..13471, 14445..14487		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111657	Strand	+
Start	9	End	750
Name	OJ990617_10.0419.C151.o1.gs	Method	GENSCAN
Start	9	End	682
GI	none	Score	.54
Exons	9..421, 472..682		

Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111657	Strand	+
Start	9	End	750
Name	OJ990617_10.0419.C151.o1.np	Method	AAT/NAP
Start	9	End	750
GI	5091520	Score	771
Exons	9..750		
GI Descrip.	(AB023482) ESTs AU058081(E30812),AU058365(E50679), AU030138(E50679) correspond to a region of the predicted gene.; Similar to Spinacia oleracea mRNA for proteasome 37kD subunit.(X96974) [Oryza sativa]		

Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o1.tm	Method	TBLASTX:Maize
Start	2	End	532
GI	none	Score	716
Exons	2..274, 3..464, 201..281, 314..466, 407..532, 416..466, 452..532		

Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o1.tw	Method	TBLASTX:Wheat
Start	2	End	532
GI	none	Score	54
Exons	2..40, 2..109, 6..95, 218..274, 219..467, 219..281, 314..463, 464..532, 465..506, 467..532		

Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o1.ts	Method	TBLASTX:Soybean
Start	6	End	532
GI	none	Score	662

Exons	6..122, 8..274, 9..467, 201..281, 314..466, 332..478, 467..532, 472..531		
Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o1.tc	Method	TBLASTX:Cress
Start	8	End	532
GI	none	Score	683
Exons	8..274, 9..467, 314..466, 419..478, 467..532, 472..531		
Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o2.np	Method	AAT/NAP
Start	771	End	1805
GI	5777617	Score	99
Exons	771..873, 1716..1805		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	52936	Seq. ID	OJ990617_10.0419.C151
Gene No.	111658	Strand	-
Start	771	End	1805
Name	OJ990617_10.0419.C151.o2.gs	Method	GENSCAN
Start	1475	End	1661
GI	none	Score	.9
Exons	1475..1567, 1584..1661		
Seq. No.	52937	Seq. ID	OJ990617_10.0419.C152
Gene No.	111659	Strand	-
Start	200	End	646
Name	OJ990617_10.0419.C152.o1.np	Method	AAT/NAP
Start	200	End	646
GI	5803247	Score	70
Exons	200..322, 418..646		
GI Descrip.	(AP000399) similar to OsENOD93a gene for early nodulin (AB018375) [Oryza sativa]		
Seq. No.	52937	Seq. ID	OJ990617_10.0419.C152
Gene No.	111660	Strand	-
Start	700	End	1374
Name	OJ990617_10.0419.C152.o1.gs	Method	GENSCAN
Start	700	End	1374
GI	none	Score	.83
Exons	700..760, 1313..1374		
Seq. No.	52938	Seq. ID	OJ990617_10.0419.C154
Gene No.	111661	Strand	+
Start	327	End	2163
Name	OJ990617_10.0419.C154.o1.gs	Method	GENSCAN
Start	327	End	2163
GI	none	Score	.75
Exons	327..511, 595..693, 926..1036, 1124..1184, 1284..1376, 1957..2163		
Seq. No.	52938	Seq. ID	OJ990617_10.0419.C154
Gene No.	111662	Strand	+

Start	4079	End	7559
Name	OJ990617_10.0419.C154.o1.gp	Method	AAT/GAP
Start	4050	End	5826
GI	1248_2.R1084	Score	1235
Exons	4050..4187, 4270..4364, 4508..4594, 4700..4762, 4872..4909, 5536..5826		
GI Descrip.	'3510256 6.0e-21 (AC005310) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52938	Seq. ID	OJ990617_10.0419.C154
Gene No.	111662	Strand	+
Start	4079	End	7559
Name	OJ990617_10.0419.C154.o1.np	Method	AAT/NAP
Start	4053	End	5590
GI	7485752	Score	229
Exons	4053..4225, 4259..4364, 4508..4594, 4700..4762, 4872..4909, 5536..5590		
GI Descrip.	hypothetical protein F19D11.10 - Arabidopsis thaliana gi\|3510256\|gb\|AAC33500.1\| (AC005310) unknown protein [Arabidopsis thaliana]		

Seq. No.	52938	Seq. ID	OJ990617_10.0419.C154
Gene No.	111662	Strand	+
Start	4079	End	7559
Name	OJ990617_10.0419.C154.o2.gs	Method	GENSCAN
Start	4079	End	7559
GI	none	Score	.66
Exons	4079..4182, 4504..4594, 7197..7321, 7349..7559		

Seq. No.	52939	Seq. ID	OJ990617_10.0419.C155
Gene No.	111663	Strand	+
Start	1760	End	2146
Name	OJ990617_10.0419.C155.o1.gs	Method	GENSCAN
Start	1760	End	2146
GI	none	Score	.68
Exons	1760..2146		

Seq. No.	52939	Seq. ID	OJ990617_10.0419.C155
Gene No.	111664	Strand	+
Start	3344	End	3442
Name	OJ990617_10.0419.C155.o2.gp	Method	AAT/GAP
Start	3344	End	3442
GI	21474_1.R1084	Score	114
Exons	3344..3442		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52939	Seq. ID	OJ990617_10.0419.C155
Gene No.	111665	Strand	-
Start	2025	End	2487
Name	OJ990617_10.0419.C155.o1.gp	Method	AAT/GAP
Start	2025	End	2487
GI	none	Score	884
Exons	2025..2487		

Seq. No.	52939	Seq. ID	OJ990617_10.0419.C155
Gene No.	111666	Strand	-

Start	3771	End	5329
Name	OJ990617_10.0419.C155.o2.gs	Method	GENSCAN
Start	3771	End	5329
GI	none	Score	.98
Exons	3771..3956, 4229..4301, 4385..4495, 4592..4765, 4875..5329		

Seq. No.	52940	Seq. ID	OJ990617_10.0419.C156
Gene No.	111667	Strand	-
Start	1	End	1232
Name	OJ990617_10.0419.C156.o1.np	Method	AAT/NAP
Start	1	End	1232
GI	4680204	Score	718
Exons	1..1232		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	52940	Seq. ID	OJ990617_10.0419.C156
Gene No.	111667	Strand	-
Start	1	End	1232
Name	OJ990617_10.0419.C156.o1.tw	Method	TBLASTX:Wheat
Start	186	End	589
GI	none	Score	84
Exons	186..356, 319..486, 351..587, 438..587, 449..589, 479..589		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111668	Strand	+
Start	853	End	1271
Name	OJ990617_10.0419.C157.o3.gp	Method	AAT/GAP
Start	853	End	1271
GI	LIB3431-028-P1-N1-A10	Score	801
Exons	853..1271		
GI Descrip.	'4680203/gb\|AAD27566.1\|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111669	Strand	-
Start	1	End	2105
Name	OJ990617_10.0419.C157.o1.gp	Method	AAT/GAP
Start	1	End	2105
GI	342_1.R1084	Score	3222
Exons	1..499, 609..713, 832..2105		
GI Descrip.	'4574406/gb\|AAD24042.1\| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111669	Strand	-
Start	1	End	2105
Name	OJ990617_10.0419.C157.o1.tw	Method	TBLASTX:Wheat
Start	965	End	2105
GI	none	Score	52
Exons	965..1057, 966..1031, 1046..1126, 1131..1211, 1139..1279, 1140..1280, 1227..1322, 1259..1318, 1325..1369, 1330..1365, 1364..2104, 1380..2105		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111669	Strand	-
Start	1	End	2105
Name	OJ990617_10.0419.C157.o1.np	Method	AAT/NAP

Start	1449	End	2105
GI	6742729	Score	1009
Exons	1449..2105		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111669	Strand	-
Start	1	End	2105
Name	OJ990617_10.0419.C157.o1.tc	Method	TBLASTX:Cress
Start	1547	End	1998
GI	none	Score	179
Exons	1547..1984, 1547..1990, 1551..1994, 1659..1994, 1843..1998		

Seq. No.	52941	Seq. ID	OJ990617_10.0419.C157
Gene No.	111669	Strand	-
Start	1	End	2105
Name	OJ990617_10.0419.C157.o1.tm	Method	TBLASTX:Maize
Start	1925	End	2105
GI	none	Score	86
Exons	1925..2104, 1953..2105		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111670	Strand	+
Start	1495	End	9441
Name	OJ990617_10.0419.C158.o2.gs	Method	GENSCAN
Start	1495	End	6576
GI	none	Score	.43
Exons	1495..1531, 2591..2610, 3914..4012, 4056..4101, 4552..4749, 6314..6576		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111670	Strand	+
Start	1495	End	9441
Name	OJ990617_10.0419.C158.o2.np	Method	AAT/NAP
Start	2339	End	3647
GI	5777617	Score	83
Exons	2339..2367, 3549..3647		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111670	Strand	+
Start	1495	End	9441
Name	OJ990617_10.0419.C158.o2.gp	Method	AAT/GAP
Start	6303	End	9441
GI	none	Score	891
Exons	6303..6576, 9219..9441		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111671	Strand	-
Start	99	End	1635
Name	OJ990617_10.0419.C158.o1.gs	Method	GENSCAN
Start	99	End	558
GI	none	Score	.64
Exons	99..558		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111671	Strand	-

Start	99	End	1635
Name	OJ990617_10.0419.C158.o1.np	Method	AAT/NAP
Start	229	End	1635
GI	5852182	Score	447
Exons	229..558, 1490..1635		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111671	Strand	-
Start	99	End	1635
Name	OJ990617_10.0419.C158.o1.gp	Method	AAT/GAP
Start	419	End	1003
GI	2310235	Score	297
Exons	419..558, 966..1003		
GI Descrip.	5852182/emb\|CAB55420.1\| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	52942	Seq. ID	OJ990617_10.0419.C158
Gene No.	111672	Strand	-
Start	4938	End	5083
Name	OJ990617_10.0419.C158.o3.np	Method	AAT/NAP
Start	4938	End	5083
GI	5777617	Score	78
Exons	4938..5083		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o1.np	Method	AAT/NAP
Start	1	End	2375
GI	7340884	Score	1379
Exons	1..61, 356..1365, 1412..2375		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o1.gs	Method	GENSCAN
Start	233	End	2370
GI	none	Score	.79
Exons	233..1337, 1562..1871, 1962..2370		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o2.tm	Method	TBLASTX:Maize
Start	524	End	985
GI	none	Score	67
Exons	524..592, 544..585, 610..816, 629..859, 896..952, 947..985		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o3.tm	Method	TBLASTX:Maize
Start	1166	End	1393

GI	none	Score	240
Exons	1166..1393, 1174..1392		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o1.tm	Method	TBLASTX:Maize
Start	1600	End	1929
GI	none	Score	289
Exons	1600..1929, 1611..1928		

Seq. No.	52943	Seq. ID	OJ990617_10.0419.C159
Gene No.	111673	Strand	+
Start	1	End	2375
Name	OJ990617_10.0419.C159.o4.tm	Method	TBLASTX:Maize
Start	2058	End	2304
GI	none	Score	206
Exons	2058..2201, 2074..2304		

Seq. No.	52944	Seq. ID	OJ990617_10.0419.C160
Gene No.	111674	Strand	+
Start	1	End	1616
Name	OJ990617_10.0419.C160.o1.np	Method	AAT/NAP
Start	1	End	1616
GI	6016874	Score	158
Exons	1..222, 1552..1616		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	52944	Seq. ID	OJ990617_10.0419.C160
Gene No.	111675	Strand	-
Start	1657	End	2022
Name	OJ990617_10.0419.C160.o1.gs	Method	GENSCAN
Start	1657	End	2022
GI	none	Score	.88
Exons	1657..1725, 1786..2022		

Seq. No.	52945	Seq. ID	OJ990617_10.0419.C161
Gene No.	111676	Strand	+
Start	1	End	4948
Name	OJ990617_10.0419.C161.o1.np	Method	AAT/NAP
Start	1	End	1572
GI	6721512	Score	169
Exons	1..105, 1211..1342, 1371..1486, 1528..1572		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	52945	Seq. ID	OJ990617_10.0419.C161
Gene No.	111676	Strand	+
Start	1	End	4948
Name	OJ990617_10.0419.C161.o1.gs	Method	GENSCAN
Start	79	End	4948
GI	none	Score	.42
Exons	79..105, 1374..1482, 3093..3443, 4728..4948		

Seq. No.	52945	Seq. ID	OJ990617_10.0419.C161
Gene No.	111677	Strand	+

Start	4949	End	6365
Name	OJ990617_10.0419.C161.o2.np	Method	AAT/NAP
Start	4949	End	6365
GI	131322	Score	63
Exons	4949..5129, 6337..6365		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE SUBUNIT K gi\|72690\|pir\|\|F2LVG psbG protein - liverwort (Marchantia polymorpha) chloroplast gi\|11676\|emb\|CAA28088.1\| (X04465) psbG [Marchantia polymorpha]		

Seq. No.	52945	Seq. ID	OJ990617_10.0419.C161
Gene No.	111677	Strand	+
Start	4949	End	6365
Name	OJ990617_10.0419.C161.o2.gp	Method	AAT/GAP
Start	5890	End	5954
GI	uC-osflcyp158c04a1	Score	86
Exons	5890..5954		
GI Descrip.	'4581164/gb\|AAD24647.1\|AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	52945	Seq. ID	OJ990617_10.0419.C161
Gene No.	111678	Strand	-
Start	1	End	85
Name	OJ990617_10.0419.C161.o1.gp	Method	AAT/GAP
Start	1	End	85
GI	425951	Score	159
Exons	1..85		

Seq. No.	52946	Seq. ID	OJ990617_10.0419.C162
Gene No.	111679	Strand	-
Start	240	End	377
Name	OJ990617_10.0419.C162.o1.gs	Method	GENSCAN
Start	240	End	377
GI	none	Score	.68
Exons	240..377		

Seq. No.	52947	Seq. ID	OJ990617_10.0419.C168
Gene No.	111680	Strand	+
Start	161	End	335
Name	OJ990617_10.0419.C168.o1.gs	Method	GENSCAN
Start	161	End	335
GI	none	Score	.72
Exons	161..335		

Seq. No.	52947	Seq. ID	OJ990617_10.0419.C168
Gene No.	111681	Strand	-
Start	1	End	380
Name	OJ990617_10.0419.C168.o1.np	Method	AAT/NAP
Start	1	End	380
GI	6498436	Score	222
Exons	1..380		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	52948	Seq. ID	OJ990617_10.0419.C172
Gene No.	111682	Strand	+
Start	1	End	1245
Name	OJ990617_10.0419.C172.o1.np	Method	AAT/NAP
Start	1	End	1245

GI	4680186	Score	183
Exons	1..27, 456..545, 1016..1245		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	52948	Seq. ID	OJ990617_10.0419.C172
Gene No.	111683	Strand	-
Start	223	End	1125
Name	OJ990617_10.0419.C172.o1.gp	Method	AAT/GAP
Start	223	End	741
GI	38782_1.R1084	Score	784
Exons	223..741		
GI Descrip.	'6069643/dbj\|AP000616.1\|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	52948	Seq. ID	OJ990617_10.0419.C172
Gene No.	111683	Strand	-
Start	223	End	1125
Name	OJ990617_10.0419.C172.o1.gs	Method	GENSCAN
Start	534	End	1125
GI	none	Score	.77
Exons	534..607, 1071..1125		

Seq. No.	52949	Seq. ID	OJ990617_10.0419.C175
Gene No.	111684	Strand	+
Start	701	End	1894
Name	OJ990617_10.0419.C175.o1.gp	Method	AAT/GAP
Start	701	End	1612
GI	none	Score	754
Exons	701..777, 1224..1612		

Seq. No.	52949	Seq. ID	OJ990617_10.0419.C175
Gene No.	111684	Strand	+
Start	701	End	1894
Name	OJ990617_10.0419.C175.o1.gs	Method	GENSCAN
Start	1456	End	1894
GI	none	Score	.51
Exons	1456..1894		

Seq. No.	52950	Seq. ID	OJ990617_10.0419.C183
Gene No.	111685	Strand	+
Start	415	End	1054
Name	OJ990617_10.0419.C183.o1.gp	Method	AAT/GAP
Start	415	End	896
GI	33296_1.R1084	Score	956
Exons	415..896		
GI Descrip.	'4417283/gb\|AAD20408\| 1.0e-19 (AC007019) putative cytochrome p450 [Arabidopsis thaliana]'		

Seq. No.	52950	Seq. ID	OJ990617_10.0419.C183
Gene No.	111685	Strand	+
Start	415	End	1054
Name	OJ990617_10.0419.C183.o1.tm	Method	TBLASTX:Maize
Start	570	End	1052
GI	none	Score	478
Exons	570..1007, 584..1006, 1014..1052		

Seq. No.	52950	Seq. ID	OJ990617_10.0419.C183

Gene No.	111685	Strand	+
Start	415	End	1054
Name	OJ990617_10.0419.C183.o1.np	Method	AAT/NAP
Start	633	End	1054
GI	7430718	Score	289
Exons	633..1054		
GI Descrip.	cytochrome P450 homolog F23K16.120 - Arabidopsis thaliana gi\|5042165\|emb\|CAB44684.1\| (AL078620) cytochrome P450-like protein [Arabidopsis thaliana] gi\|7270933\|emb\|CAB80612.1\| (AL161595) cytochrome P450-like protein [Arabidopsis thaliana]		

Seq. No.	52950	Seq. ID	OJ990617_10.0419.C183
Gene No.	111685	Strand	+
Start	415	End	1054
Name	OJ990617_10.0419.C183.o1.tc	Method	TBLASTX:Cress
Start	726	End	1046
GI	none	Score	220
Exons	726..1046, 728..895		

Seq. No.	52950	Seq. ID	OJ990617_10.0419.C183
Gene No.	111685	Strand	+
Start	415	End	1054
Name	OJ990617_10.0419.C183.o1.ts	Method	TBLASTX:Soybean
Start	726	End	1049
GI	none	Score	233
Exons	726..1049, 746..1042		

Seq. No.	52951	Seq. ID	OJ990507_11.0419.C1
Gene No.	111686	Strand	-
Start	58	End	814
Name	OJ990507_11.0419.C1.o1.np	Method	AAT/NAP
Start	58	End	814
GI	1220416	Score	1195
Exons	58..814		
GI Descrip.	(M93663) RNA-dependent EIF-2 alpha kinase [Mus musculus]		

Seq. No.	52952	Seq. ID	OJ990507_11.0419.C2
Gene No.	111687	Strand	+
Start	154	End	733
Name	OJ990507_11.0419.C2.o1.np	Method	AAT/NAP
Start	154	End	733
GI	2119980	Score	867
Exons	154..733		
GI Descrip.	transposase (transposons) - Escherichia coli gi\|43089\|emb\|CAA42760\| (X60200) transposase [Escherichia coli] gi\|303566\|dbj\|BAA03914\| (D16449) transposase [Escherichia coli]		

Seq. No.	52953	Seq. ID	OJ990317_10.0421.C5
Gene No.	111688	Strand	+
Start	65	End	501
Name	OJ990317_10.0421.C5.o1.gs	Method	GENSCAN
Start	65	End	501
GI	none	Score	.88
Exons	65..91, 379..501		

Seq. No.	52954	Seq. ID	OJ990317_10.0421.C7
Gene No.	111689	Strand	+

Start	669	End	774
Name	OJ990317_10.0421.C7.o1.gs	Method	GENSCAN
Start	669	End	774
GI	none	Score	.6
Exons	669..774		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111690	Strand	+
Start	1	End	3031
Name	OJ990317_10.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	3031
GI	3482932	Score	467
Exons	1..273, 1817..2186, 2912..3031		
GI Descrip.	(AC003970) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o2.np	Method	AAT/NAP
Start	1	End	7309
GI	6721547	Score	94
Exons	1..101, 7219..7309		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	1820	End	2203
GI	none	Score	574
Exons	1820..2203, 1820..1870, 1836..1985, 1919..2131, 1921..2202		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	1886	End	2143
GI	none	Score	325
Exons	1886..2143, 1919..2131, 1924..2136		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	1910	End	2221
GI	none	Score	363
Exons	1910..2221, 1936..2205		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8
Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	1943	End	2232
GI	none	Score	224
Exons	1943..2227, 1952..2110, 1960..2232		

Seq. No.	52955	Seq. ID	OJ990317_10.0421.C8

Gene No.	111691	Strand	-
Start	1	End	7309
Name	OJ990317_10.0421.C8.o1.gp	Method	AAT/GAP
Start	2138	End	2638
GI	35961_1.R1084	Score	951
Exons	2138..2638		
GI Descrip.	'114974/sp\|P26204\|BGLS_TRIRP 1.0e-37 NON-CYANOGENIC BETA-GLUCOSIDASE PRECURSOR >gi_67491_pir__GLJY31 beta-glucosidase (EC 3.2.1.21) precursor (clone TRE361) - white clover >gi_21955_emb_CAA40058.1_ (X56734) beta-glucosidase [Trifolium repens]'		

Seq. No.	52956	Seq. ID	OJ990317_10.0421.C9
Gene No.	111692	Strand	-
Start	299	End	380
Name	OJ990317_10.0421.C9.o1.gs	Method	GENSCAN
Start	299	End	380
GI	none	Score	.48
Exons	299..380		

Seq. No.	52957	Seq. ID	OJ990317_10.0421.C10
Gene No.	111693	Strand	+
Start	1	End	1747
Name	OJ990317_10.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	1747
GI	7106512	Score	862
Exons	1..25, 227..853, 1014..1140, 1340..1747		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o1.gs	Method	GENSCAN
Start	323	End	2031
GI	none	Score	.82
Exons	323..516, 616..661, 745..2031		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	596	End	1081
GI	none	Score	244
Exons	596..658, 769..1080, 785..1081		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o1.np	Method	AAT/NAP
Start	673	End	2129
GI	4580990	Score	620
Exons	673..1136, 1179..1421, 1488..2129		
GI Descrip.	(AF120335) putative transposase [Arabidopsis thaliana]		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-

Start	323	End	2129
Name	OJ990317_10.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	718	End	1083
GI	none	Score	39
Exons	718..825, 781..1083, 806..985		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	1252	End	1917
GI	none	Score	176
Exons	1252..1404, 1498..1917		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	1252	End	2129
GI	none	Score	45
Exons	1252..1407, 1492..1635, 1675..1932, 1868..1948, 1966..2037, 2034..2129		

Seq. No.	52958	Seq. ID	OJ990317_10.0421.C11
Gene No.	111694	Strand	-
Start	323	End	2129
Name	OJ990317_10.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	1633	End	1929
GI	none	Score	195
Exons	1633..1929		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111695	Strand	+
Start	987	End	2603
Name	OJ990317_10.0421.C15.o1.gs	Method	GENSCAN
Start	987	End	2603
GI	none	Score	.66
Exons	987..992, 2445..2603		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111696	Strand	-
Start	3847	End	5308
Name	OJ990317_10.0421.C15.o1.np	Method	AAT/NAP
Start	3819	End	5308
GI	7486070	Score	409
Exons	3819..3965, 4108..4167, 4269..4390, 4577..4718, 4909..5035, 5136..5308		
GI Descrip.	hypothetical protein F24G24.160 - Arabidopsis thaliana gi\|4538965\|emb\|CAB39789.1\| (AL049488) hypothetical protein [Arabidopsis thaliana] gi\|7267733\|emb\|CAB78159.1\| (AL161517) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111696	Strand	-
Start	3847	End	5308
Name	OJ990317_10.0421.C15.o2.gs	Method	GENSCAN
Start	3847	End	5224

GI	none	Score	.81
Exons	3847..3965, 4328..4424, 4624..4657, 5136..5224		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111696	Strand	-
Start	3847	End	5308
Name	OJ990317_10.0421.C15.o1.gp	Method	AAT/GAP
Start	4678	End	5240
GI	35514_1.R1084	Score	450
Exons	4678..4718, 4909..5035, 5135..5240		
GI Descrip.	'4538965/emb\|CAB39789.1\| 1.0e-14 (AL049488) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730
Name	OJ990317_10.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	1650	End	2135
GI	none	Score	299
Exons	1650..2036, 1665..1883, 1745..1894, 2049..2135		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730
Name	OJ990317_10.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	1863	End	2228
GI	none	Score	326
Exons	1863..2228, 2105..2227		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730
Name	OJ990317_10.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	2307	End	2597
GI	none	Score	176
Exons	2307..2504, 2361..2417, 2442..2549, 2499..2597		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730
Name	OJ990317_10.0421.C15.o1.tc	Method	TBLASTX:Cress
Start	3840	End	4289
GI	none	Score	100
Exons	3840..3983, 3847..3969, 4090..4161, 4091..4153, 4266..4289		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730
Name	OJ990317_10.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	3846	End	5221
GI	none	Score	54
Exons	3846..3983, 4105..4167, 4266..4343, 4421..4546, 4421..4552, 4641..4742, 4642..4719, 4963..5040, 5135..5221		

Seq. No.	52959	Seq. ID	OJ990317_10.0421.C15
Gene No.	111697	Strand	-
Start	5271	End	5730

Name	OJ990317_10.0421.C15.o2.gp	Method	AAT/GAP
Start	5271	End	5730
GI	701671	Score	862
Exons	5271..5730		

Seq. No.	52960	Seq. ID	OJ990317_10.0421.C16
Gene No.	111698	Strand	+
Start	191	End	367
Name	OJ990317_10.0421.C16.o1.gs	Method	GENSCAN
Start	191	End	367
GI	none	Score	.95
Exons	191..367		

Seq. No.	52960	Seq. ID	OJ990317_10.0421.C16
Gene No.	111699	Strand	-
Start	854	End	1253
Name	OJ990317_10.0421.C16.o1.gp	Method	AAT/GAP
Start	854	End	1253
GI	35514_1.R1084	Score	348
Exons	854..987, 1144..1253		
GI Descrip.	'4538965/emb\|CAB39789.1\| 1.0e-14 (AL049488) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	52961	Seq. ID	OJ990317_10.0421.C17
Gene No.	111700	Strand	-
Start	1410	End	3046
Name	OJ990317_10.0421.C17.o1.gs	Method	GENSCAN
Start	1410	End	3046
GI	none	Score	.73
Exons	1410..1454, 2876..3046		

Seq. No.	52962	Seq. ID	OJ990317_10.0421.C18
Gene No.	111701	Strand	-
Start	80	End	1413
Name	OJ990317_10.0421.C18.o1.gs	Method	GENSCAN
Start	80	End	1413
GI	none	Score	.78
Exons	80..179, 384..660, 1024..1101, 1342..1413		

Seq. No.	52963	Seq. ID	OJ990317_10.0421.C19
Gene No.	111702	Strand	+
Start	245	End	412
Name	OJ990317_10.0421.C19.o1.gs	Method	GENSCAN
Start	245	End	412
GI	none	Score	.7
Exons	245..412		

Seq. No.	52963	Seq. ID	OJ990317_10.0421.C19
Gene No.	111703	Strand	-
Start	373	End	470
Name	OJ990317_10.0421.C19.o1.np	Method	AAT/NAP
Start	373	End	470
GI	6006359	Score	57
Exons	373..470		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20

Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	1446
GI	4558666	Score	1324
Exons	1..1048, 1134..1446		
GI Descrip.	(AC007063) putative Na/H antiporter [Arabidopsis thaliana]		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o1.tc	Method	TBLASTX:Cress
Start	55	End	430
GI	none	Score	44
Exons	55..87, 108..155, 113..289, 158..262, 251..289, 332..430		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o1.gs	Method	GENSCAN
Start	120	End	1400
GI	none	Score	.61
Exons	120..1048, 1134..1400		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o2.tm	Method	TBLASTX:Maize
Start	221	End	592
GI	none	Score	54
Exons	221..274, 331..501, 332..472, 521..592		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o2.ts	Method	TBLASTX:Soybean
Start	668	End	922
GI	none	Score	225
Exons	668..922, 679..906		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o1.ts	Method	TBLASTX:Soybean
Start	965	End	1436
GI	none	Score	76
Exons	965..1051, 1149..1436		

Seq. No.	52964	Seq. ID	OJ990317_10.0421.C20
Gene No.	111704	Strand	+
Start	1	End	1446
Name	OJ990317_10.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	1218	End	1436
GI	none	Score	165
Exons	1218..1340, 1220..1375, 1341..1436, 1346..1435		

Seq. No.	52965	Seq. ID	OJ990317_10.0421.C21

Gene No.	111705	Strand	-
Start	299	End	738
Name	OJ990317_10.0421.C21.o1.np	Method	AAT/NAP
Start	299	End	738
GI	6822065	Score	279
Exons	299..426, 506..631, 711..738		
GI Descrip.	(AL132957) putative protein [Arabidopsis thaliana]		

Seq. No.	52965	Seq. ID	OJ990317_10.0421.C21
Gene No.	111705	Strand	-
Start	299	End	738
Name	OJ990317_10.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	324	End	670
GI	none	Score	73
Exons	324..422, 324..428, 343..429, 343..435, 497..670, 508..633		

Seq. No.	52965	Seq. ID	OJ990317_10.0421.C21
Gene No.	111705	Strand	-
Start	299	End	738
Name	OJ990317_10.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	339	End	736
GI	none	Score	91
Exons	339..425, 339..428, 340..429, 346..435, 347..436, 506..637, 508..633, 702..731, 710..736		

Seq. No.	52965	Seq. ID	OJ990317_10.0421.C21
Gene No.	111705	Strand	-
Start	299	End	738
Name	OJ990317_10.0421.C21.o1.gs	Method	GENSCAN
Start	346	End	631
GI	none	Score	.58
Exons	346..426, 506..631		

Seq. No.	52965	Seq. ID	OJ990317_10.0421.C21
Gene No.	111705	Strand	-
Start	299	End	738
Name	OJ990317_10.0421.C21.o1.gp	Method	AAT/GAP
Start	525	End	738
GI	8895_1.R1084	Score	231
Exons	525..631, 711..738		
GI Descrip.	'3786009 2.0e-58 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52966	Seq. ID	OJ990317_10.0421.C23
Gene No.	111706	Strand	+
Start	437	End	514
Name	OJ990317_10.0421.C23.o1.gs	Method	GENSCAN
Start	437	End	514
GI	none	Score	.62
Exons	437..514		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111707	Strand	+
Start	447	End	7308
Name	OJ990317_10.0421.C24.o1.gs	Method	GENSCAN
Start	447	End	7308
GI	none	Score	.6

Exons	447..502, 1056..1077, 1813..1911, 2074..2134, 2254..2370, 2375..2565, 2597..3029, 3381..3450, 5482..5514, 6878..7308		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111708	Strand	+
Start	7786	End	8427
Name	OJ990317_10.0421.C24.o2.gs	Method	GENSCAN
Start	7786	End	8427
GI	none	Score	.83
Exons	7786..8427		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111709	Strand	+
Start	10795	End	14534
Name	OJ990317_10.0421.C24.o2.gp	Method	AAT/GAP
Start	10795	End	14534
GI	4955_1.R1084	Score	3915
Exons	10795..10862, 11178..11358, 11675..11802, 11894..12044, 12142..12345, 12496..12920, 13310..13502, 13582..13677, 13767..13922, 14076..14534		
GI Descrip.	'400803/sp\|P30792\|PMGI_MAIZE 0.0e+00 2,3-BISPHOSPHOGLYCERATE-INDEPENDENT PHOSPHOGLYCERATE MUTASE (PHOSPHOGLYCEROMUTASE) (BPG-INDEPENDENT PGAM) (PGAM-I) >gi_283033_pir__A42807 phosphoglycerate mutase (EC 5.4.2.1), 2, 3-bisphosphoglycerate-independent - maize >gi_168588 (M80912) 2,3-bisphosphoglycerate-independent phosphoglycerate mutase [Zea mays]'		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111709	Strand	+
Start	10795	End	14534
Name	OJ990317_10.0421.C24.o2.np	Method	AAT/NAP
Start	11197	End	14237
GI	400803	Score	2453
Exons	11197..11358, 11675..11802, 11894..12044, 12142..12345, 12496..12920, 13310..13502, 13582..13677, 13767..13922, 14076..14237		
GI Descrip.	2,3-BISPHOSPHOGLYCERATE-INDEPENDENT PHOSPHOGLYCERATE MUTASE (PHOSPHOGLYCEROMUTASE) (BPG-INDEPENDENT PGAM) (PGAM-I) gi\|283033\|pir\|\|A42807 phosphoglycerate mutase (EC 5.4.2.1), 2, 3-bisphosphoglycerate-independent - maize gi\|168588 (M80912) 2,3-bisphosphoglycerate-independent phosphoglycerate mutase [Zea mays]		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111709	Strand	+
Start	10795	End	14534
Name	OJ990317_10.0421.C24.o4.gs	Method	GENSCAN
Start	11744	End	14240
GI	none	Score	.82
Exons	11744..11802, 11894..12044, 12142..12345, 12535..12817, 12921..12972, 13310..13502, 13582..13677, 13767..13922, 14076..14240		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111710	Strand	+
Start	29455	End	29787

Name	OJ990317_10.0421.C24.o7.gs	Method	GENSCAN
Start	29455	End	29787
GI	none	Score	.5
Exons	29455..29787		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111711	Strand	+
Start	36654	End	37312
Name	OJ990317_10.0421.C24.o5.np	Method	AAT/NAP
Start	36654	End	37312
GI	5922623	Score	193
Exons	36654..36736, 37114..37312		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi\|6016856\|dbj\|BAA85199.1\| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111712	Strand	-
Start	2202	End	10375
Name	OJ990317_10.0421.C24.o1.np	Method	AAT/NAP
Start	2202	End	10375
GI	6523547	Score	444
Exons	2202..2447, 2543..2658, 2719..2901, 3026..3255, 7138..7260, 7807..7881, 8179..8375, 10302..10375		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111712	Strand	-
Start	2202	End	10375
Name	OJ990317_10.0421.C24.o1.gp	Method	AAT/GAP
Start	3991	End	4237
GI	8022_1.R1084	Score	338
Exons	3991..4237		
GI Descrip.	'5091496/dbj\|AB023482.2\|AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111713	Strand	-
Start	14969	End	20704
Name	OJ990317_10.0421.C24.o3.gp	Method	AAT/GAP
Start	14735	End	16239
GI	3508_1.R1084	Score	1456
Exons	14735..15174, 15805..16075, 16180..16239		
GI Descrip.	'3786009 2.0e-72 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111713	Strand	-
Start	14969	End	20704
Name	OJ990317_10.0421.C24.o5.gs	Method	GENSCAN
Start	14969	End	20704
GI	none	Score	.59
Exons	14969..15174, 15805..16075, 16180..16342, 16973..17053, 17133..17258, 17338..17488, 17565..17647, 17935..18032, 18212..18256, 18307..18530, 18740..18953, 20621..20704		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111713	Strand	-
Start	14969	End	20704
Name	OJ990317_10.0421.C24.o3.np	Method	AAT/NAP
Start	14972	End	18498
GI	3786009	Score	1466
Exons	14972..15174, 15805..16075, 16180..16372, 16973..17053, 17133..17258, 17338..17488, 17565..17709, 18307..18498		
GI Descrip.	(AC005499) unknown protein [Arabidopsis thaliana]		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111713	Strand	-
Start	14969	End	20704
Name	OJ990317_10.0421.C24.o4.gp	Method	AAT/GAP
Start	17152	End	18660
GI	8895_1.R1084	Score	1342
Exons	17152..17258, 17338..17488, 17565..17709, 18307..18660		
GI Descrip.	'3786009 2.0e-58 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111714	Strand	-
Start	26012	End	28543
Name	OJ990317_10.0421.C24.o6.gs	Method	GENSCAN
Start	26012	End	28543
GI	none	Score	.88
Exons	26012..26099, 26391..26511, 27348..27467, 28027..28140, 28166..28229, 28466..28543		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o5.tc	Method	TBLASTX:Cress
Start	7882	End	8394
GI	none	Score	94
Exons	7882..7974, 7975..8049, 8071..8160, 8212..8271, 8263..8394		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	11172	End	14366
GI	none	Score	247
Exons	11172..11357, 11215..11358, 11670..11792, 11675..11818, 11676..11795, 11892..12038, 11894..12043, 11895..12047, 12134..12343, 12138..12344, 12139..12345, 12145..12345, 12475..12936, 12495..12920, 13275..13535, 13290..13505, 13580..13675, 13581..13664, 13582..13680, 13764..13925, 13765..13923, 13766..13924, 14071..14253, 14075..14257, 14076..14240, 14315..14353, 14319..14366		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	11188	End	14266
GI	none	Score	233

Exons	11188..11346, 11196..11357, 11197..11355, 11664..11801, 11670..11801, 11672..11818, 11894..12043, 11895..12047, 12135..12344, 12139..12345, 12472..12936, 12495..12920, 13290..13505, 13307..13504, 13572..13631, 13579..13713, 13581..13664, 13582..13680, 13764..13913, 13764..13913, 13766..13924, 13790..13924, 14070..14240, 14070..14249, 14075..14266		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o1.tc	Method	TBLASTX:Cress
Start	11200	End	14240
GI	none	Score	207
Exons	11200..11358, 11201..11248, 11223..11354, 11667..11816, 11674..11817, 11675..11818, 11681..11830, 11860..12039, 11894..12040, 11895..12047, 12139..12345, 12141..12344, 12475..12936, 12495..12920, 13284..13532, 13288..13503, 13299..13505, 13581..13652, 13581..13631, 13582..13677, 13754..13924, 13770..13925, 14075..14233, 14076..14240		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o1.tw	Method	TBLASTX:Wheat
Start	12501	End	13680
GI	none	Score	463
Exons	12501..12920, 12501..12920, 12502..12936, 13275..13535, 13299..13505, 13309..13512, 13582..13611, 13612..13680, 13613..13675		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o10.tw	Method	TBLASTX:Wheat
Start	13806	End	14249
GI	none	Score	183
Exons	13806..13925, 13814..13924, 13817..13930, 14072..14242, 14075..14242, 14076..14249, 14076..14249		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o7.tm	Method	TBLASTX:Maize
Start	14926	End	15176
GI	none	Score	110
Exons	14926..15087, 14943..15098, 14944..15096, 14945..15103, 14964..15104, 15093..15176, 15104..15175		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o2.ts	Method	TBLASTX:Soybean
Start	14967	End	18489
GI	none	Score	70
Exons	14967..15092, 14969..15103, 15110..15175, 15117..15176, 15797..16084, 15807..16085, 16157..16378, 16168..16374,		

16197..16391, 16927..17055, 16967..17056, 17124..17258,
17135..17257, 17136..17258, 17335..17508, 17337..17486,
17558..17659, 17560..17673, 18307..18408, 18457..18489

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o4.tc	Method	TBLASTX:Cress
Start	14969	End	15874
GI	none	Score	72
Exons	14969..15091, 14970..15080, 15110..15175, 15117..15176, 15797..15874		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o11.tw	Method	TBLASTX:Wheat
Start	15125	End	15962
GI	none	Score	57
Exons	15125..15175, 15126..15176, 15797..15961, 15805..15960, 15807..15962		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o6.tm	Method	TBLASTX:Maize
Start	15840	End	16028
GI	none	Score	198
Exons	15840..16028, 15842..16027		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o2.tc	Method	TBLASTX:Cress
Start	15875	End	16391
GI	none	Score	111
Exons	15875..16012, 15885..16013, 16010..16084, 16177..16374, 16178..16378, 16197..16391		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o7.tw	Method	TBLASTX:Wheat
Start	15962	End	17055
GI	none	Score	74
Exons	15962..16084, 15966..16085, 16157..16378, 16169..16309, 16177..16374, 16966..17049, 16967..17053, 16968..17054, 16975..17055		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o2.tm	Method	TBLASTX:Maize
Start	16028	End	17722
GI	none	Score	68
Exons	16028..16084, 16029..16085, 16157..16378, 16168..16374, 16966..17055, 16967..17056, 16973..17062, 16974..17063,		

17128..17241, 17133..17258, 17135..17257, 17326..17484, 17335..17484, 17336..17491, 17337..17486, 17555..17674, 17560..17712, 17560..17709, 17576..17722

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o3.tc	Method	TBLASTX:Cress
Start	17207	End	18451
GI	none	Score	53
Exons	17207..17257, 17208..17258, 17335..17508, 17335..17448, 17337..17486, 17560..17667, 17602..17670, 17683..17709, 18310..18423, 18317..18451		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o4.np	Method	AAT/NAP
Start	30425	End	36577
GI	7228457	Score	9236
Exons	30425..31975, 32042..33193, 33316..34150, 34214..36149, 36211..36577		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o9.tw	Method	TBLASTX:Wheat
Start	30434	End	31036
GI	none	Score	83
Exons	30434..30559, 30438..30560, 30726..30896, 30734..31036, 30741..31031, 30743..31036		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o5.tw	Method	TBLASTX:Wheat
Start	31037	End	31418
GI	none	Score	165
Exons	31037..31417, 31068..31316, 31362..31418		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o4.tm	Method	TBLASTX:Maize
Start	31232	End	31555
GI	none	Score	193
Exons	31232..31555, 31245..31538		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o12.tw	Method	TBLASTX:Wheat
Start	31748	End	32060
GI	none	Score	76

Exons	31748..32008, 31749..32060		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o4.ts	Method	TBLASTX:Soybean
Start	31808	End	32374
GI	5666795	Score	68
Exons	31808..32008, 32063..32200, 32276..32374		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o6.tw	Method	TBLASTX:Wheat
Start	32063	End	32521
GI	none	Score	92
Exons	32063..32215, 32064..32201, 32259..32432, 32273..32521, 32273..32497		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o3.ts	Method	TBLASTX:Soybean
Start	33122	End	33493
GI	none	Score	90
Exons	33122..33493, 33333..33476		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o3.tw	Method	TBLASTX:Wheat
Start	33147	End	33571
GI	none	Score	327
Exons	33147..33566, 33152..33571		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o5.tm	Method	TBLASTX:Maize
Start	33245	End	33629
GI	none	Score	218
Exons	33245..33628, 33264..33629		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o3.tm	Method	TBLASTX:Maize
Start	33656	End	34012
GI	none	Score	114
Exons	33656..33961, 33656..34012, 33666..33977		
Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o2.tw	Method	TBLASTX:Wheat
Start	33680	End	34143

GI	none	Score	400
Exons	33680..34141, 33681..34142, 33700..34143		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o5.ts	Method	TBLASTX:Soybean
Start	33737	End	34102
GI	none	Score	117
Exons	33737..33871, 33878..34102		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o4.tw	Method	TBLASTX:Wheat
Start	34307	End	34793
GI	none	Score	174
Exons	34307..34792, 34311..34598, 34610..34753, 34620..34793		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o8.tw	Method	TBLASTX:Wheat
Start	35531	End	35923
GI	none	Score	89
Exons	35531..35788, 35565..35804, 35771..35869, 35772..35852, 35876..35923		

Seq. No.	52967	Seq. ID	OJ990317_10.0421.C24
Gene No.	111715	Strand	-
Start	30425	End	36577
Name	OJ990317_10.0421.C24.o8.tm	Method	TBLASTX:Maize
Start	35633	End	35918
GI	none	Score	105
Exons	35633..35881, 35634..35918		

Seq. No.	52968	Seq. ID	OJ990317_10.0421.C25
Gene No.	111716	Strand	+
Start	68	End	193
Name	OJ990317_10.0421.C25.o1.gs	Method	GENSCAN
Start	68	End	193
GI	none	Score	.58
Exons	68..193		

Seq. No.	52968	Seq. ID	OJ990317_10.0421.C25
Gene No.	111717	Strand	+
Start	3465	End	3571
Name	OJ990317_10.0421.C25.o1.gp	Method	AAT/GAP
Start	3465	End	3571
GI	2443085	Score	191
Exons	3465..3571		

Seq. No.	52968	Seq. ID	OJ990317_10.0421.C25
Gene No.	111718	Strand	-
Start	938	End	3868
Name	OJ990317_10.0421.C25.o2.gs	Method	GENSCAN
Start	938	End	3868

GI	none	Score	.49
Exons	938..996, 3164..3326, 3374..3664, 3711..3868		

Seq. No.	52969	Seq. ID	OJ990317_10.0421.C26
Gene No.	111719	Strand	+
Start	1	End	878
Name	OJ990317_10.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	878
GI	7443869	Score	437
Exons	1..878		
GI Descrip.	probable transposase - maize transposable element Ac gi\|22491\|emb\|CAA25636.1\| (X01380) ORF2 [Zea mays]		

Seq. No.	52969	Seq. ID	OJ990317_10.0421.C26
Gene No.	111719	Strand	+
Start	1	End	878
Name	OJ990317_10.0421.C26.o1.gs	Method	GENSCAN
Start	19	End	694
GI	none	Score	.44
Exons	19..694		

Seq. No.	52969	Seq. ID	OJ990317_10.0421.C26
Gene No.	111719	Strand	+
Start	1	End	878
Name	OJ990317_10.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	67	End	504
GI	none	Score	122
Exons	67..234, 256..465, 430..504		

Seq. No.	52969	Seq. ID	OJ990317_10.0421.C26
Gene No.	111719	Strand	+
Start	1	End	878
Name	OJ990317_10.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	78	End	777
GI	none	Score	121
Exons	78..218, 79..228, 256..498, 258..518, 553..777		

Seq. No.	52969	Seq. ID	OJ990317_10.0421.C26
Gene No.	111719	Strand	+
Start	1	End	878
Name	OJ990317_10.0421.C26.o1.tw	Method	TBLASTX:Wheat
Start	556	End	813
GI	none	Score	192
Exons	556..813		

Seq. No.	52970	Seq. ID	OJ990317_10.0421.C30
Gene No.	111720	Strand	+
Start	1	End	297
Name	OJ990317_10.0421.C30.o1.gp	Method	AAT/GAP
Start	1	End	297
GI	72524_1.R1084	Score	420
Exons	1..297		
GI Descrip.	'5091496/dbj\|AB023482.2\|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	52970	Seq. ID	OJ990317_10.0421.C30
Gene No.	111721	Strand	+

Start	244	End	548
Name	OJ990317_10.0421.C30.o1.np	Method	AAT/NAP
Start	244	End	548
GI	7106512	Score	224
Exons	244..303, 377..548		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52970	Seq. ID	OJ990317_10.0421.C30
Gene No.	111722	Strand	-
Start	316	End	457
Name	OJ990317_10.0421.C30.o1.gs	Method	GENSCAN
Start	316	End	457
GI	none	Score	.77
Exons	316..457		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	898
GI	6466937	Score	542
Exons	1..898		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o1.gs	Method	GENSCAN
Start	164	End	853
GI	none	Score	1
Exons	164..853		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	206	End	478
GI	none	Score	185
Exons	206..478		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	227	End	616
GI	none	Score	228
Exons	227..616		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	479	End	895
GI	none	Score	72
Exons	479..895, 519..617, 693..740, 801..875		

Seq. No.	52971	Seq. ID	OJ990827_14.0419.C11
Gene No.	111723	Strand	-
Start	1	End	898
Name	OJ990827_14.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	698	End	895
GI	none	Score	52
Exons	698..895, 743..853		

Seq. No.	52972	Seq. ID	OJ990827_14.0419.C31
Gene No.	111724	Strand	+
Start	626	End	749
Name	OJ990827_14.0419.C31.o1.gp	Method	AAT/GAP
Start	626	End	749
GI	none	Score	248
Exons	626..749		

Seq. No.	52972	Seq. ID	OJ990827_14.0419.C31
Gene No.	111725	Strand	-
Start	531	End	597
Name	OJ990827_14.0419.C31.o1.gs	Method	GENSCAN
Start	531	End	597
GI	none	Score	.44
Exons	531..597		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1580
GI	5921924	Score	904
Exons	1..448, 482..982, 1079..1580		
GI Descrip.	CYTOCHROME P450 51 (CYPL1) (P450-L1A1) (OBTUSIFOLIOL 14-ALPHA DEMETHYLASE) gi\|1658193 (U74319) obtusifoliol 14-alpha demethylase CYP51 [Sorghum bicolor]		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	9	End	1027
GI	none	Score	87
Exons	9..143, 17..151, 173..439, 201..416, 293..424, 491..1027, 617..904, 657..983		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	9	End	733
GI	none	Score	120
Exons	9..143, 17..151, 176..493, 575..733		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o1.gs	Method	GENSCAN

Start	65	End	1571
GI	none	Score	.49
Exons	65..982, 1314..1571		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	710	End	1461
GI	none	Score	153
Exons	710..982, 726..977, 1251..1391, 1255..1461		

Seq. No.	52973	Seq. ID	OJ990827_14.0419.C33
Gene No.	111726	Strand	-
Start	1	End	1580
Name	OJ990827_14.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	734	End	1415
GI	none	Score	136
Exons	734..982, 738..977, 1251..1376, 1264..1395, 1389..1415		

Seq. No.	52974	Seq. ID	OJ990827_14.0419.C35
Gene No.	111727	Strand	+
Start	690	End	1382
Name	OJ990827_14.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	601	End	1014
GI	none	Score	277
Exons	601..648, 718..1014, 741..911, 742..912, 940..1011		

Seq. No.	52974	Seq. ID	OJ990827_14.0419.C35
Gene No.	111727	Strand	+
Start	690	End	1382
Name	OJ990827_14.0419.C35.o1.np	Method	AAT/NAP
Start	690	End	1382
GI	6983860	Score	353
Exons	690..1065, 1338..1382		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	52974	Seq. ID	OJ990827_14.0419.C35
Gene No.	111727	Strand	+
Start	690	End	1382
Name	OJ990827_14.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	718	End	1014
GI	none	Score	234
Exons	718..1014, 741..905		

Seq. No.	52975	Seq. ID	OJ990827_14.0419.C38
Gene No.	111728	Strand	-
Start	971	End	1110
Name	OJ990827_14.0419.C38.o1.gs	Method	GENSCAN
Start	971	End	1110
GI	none	Score	.4
Exons	971..1110		

Seq. No.	52976	Seq. ID	OJ990827_14.0419.C40
Gene No.	111729	Strand	-
Start	264	End	391

Name	OJ990827_14.0419.C40.o1.gs	Method	GENSCAN
Start	264	End	391
GI	none	Score	.98
Exons	264..391		

Seq. No.	52977	Seq. ID	OJ990827_14.0419.C45
Gene No.	111730	Strand	-
Start	1	End	1056
Name	OJ990827_14.0419.C45.o2.np	Method	AAT/NAP
Start	1	End	1056
GI	6705984	Score	255
Exons	1..579, 1026..1056		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	52977	Seq. ID	OJ990827_14.0419.C45
Gene No.	111730	Strand	-
Start	1	End	1056
Name	OJ990827_14.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	47	End	541
GI	none	Score	71
Exons	47..343, 57..266, 359..541		

Seq. No.	52978	Seq. ID	OJ990827_14.0419.C49
Gene No.	111731	Strand	-
Start	1	End	716
Name	OJ990827_14.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	716
GI	1731146	Score	109
Exons	1..36, 615..716		
GI Descrip.	HYPOTHETICAL 42.1 KD PROTEIN ZK1307.9 IN CHROMOSOME III gi\|7510981\|pir\|\|T27732 hypothetical protein ZK1307.9 - Caenorhabditis elegans gi\|3881615\|emb\|CAA87435.1\| (Z47358) similar to YJU2 protein; cDNA EST yk645d5.3 comes from this gene; cDNA EST yk645d5.5 comes from this gene [Caenorhabditis elegans]		

Seq. No.	52978	Seq. ID	OJ990827_14.0419.C49
Gene No.	111731	Strand	-
Start	1	End	716
Name	OJ990827_14.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	604	End	716
GI	none	Score	153
Exons	604..705, 610..714, 612..716		

Seq. No.	52978	Seq. ID	OJ990827_14.0419.C49
Gene No.	111731	Strand	-
Start	1	End	716
Name	OJ990827_14.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	610	End	716
GI	none	Score	129
Exons	610..714, 610..714, 612..716		

Seq. No.	52978	Seq. ID	OJ990827_14.0419.C49
Gene No.	111731	Strand	-
Start	1	End	716
Name	OJ990827_14.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	610	End	716

GI	none	Score	169
Exons	610..714, 610..705, 612..716		

Seq. No.	52979	Seq. ID	OJ990827_14.0419.C51
Gene No.	111732	Strand	-
Start	55	End	298
Name	OJ990827_14.0419.C51.o1.gs	Method	GENSCAN
Start	55	End	298
GI	none	Score	.96
Exons	55..298		

Seq. No.	52979	Seq. ID	OJ990827_14.0419.C51
Gene No.	111733	Strand	-
Start	669	End	1129
Name	OJ990827_14.0419.C51.o1.np	Method	AAT/NAP
Start	646	End	1129
GI	6466937	Score	121
Exons	646..1129		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52979	Seq. ID	OJ990827_14.0419.C51
Gene No.	111733	Strand	-
Start	669	End	1129
Name	OJ990827_14.0419.C51.o2.gs	Method	GENSCAN
Start	669	End	1000
GI	none	Score	.7
Exons	669..1000		

Seq. No.	52979	Seq. ID	OJ990827_14.0419.C51
Gene No.	111733	Strand	-
Start	669	End	1129
Name	OJ990827_14.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	816	End	1108
GI	none	Score	135
Exons	816..1088, 858..1082, 859..1089, 980..1108		

Seq. No.	52980	Seq. ID	OJ990817_15.0419.C6
Gene No.	111734	Strand	-
Start	1199	End	1312
Name	OJ990817_15.0419.C6.o1.gs	Method	GENSCAN
Start	1199	End	1312
GI	none	Score	.67
Exons	1199..1312		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111735	Strand	+
Start	1489	End	2436
Name	OJ990817_15.0419.C7.o1.gs	Method	GENSCAN
Start	1489	End	2436
GI	none	Score	.98
Exons	1489..2436		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111735	Strand	+
Start	1489	End	2436
Name	OJ990817_15.0419.C7.o1.np	Method	AAT/NAP

Start	1513	End	2395
GI	5430771	Score	345
Exons	1513..2395		
GI Descrip.	(AC007504) Unknown Protein [Arabidopsis thaliana]		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	1525	End	1809
GI	none	Score	272
Exons	1525..1809, 1527..1790		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	1612	End	1980
GI	none	Score	154
Exons	1612..1809, 1632..1802, 1873..1980, 1890..1958		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	1882	End	2295
GI	none	Score	245
Exons	1882..2142, 1896..2132, 2173..2295		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o2.gs	Method	GENSCAN
Start	3857	End	7060
GI	none	Score	.41
Exons	3857..3868, 5781..5847, 5982..7060		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	5914	End	6354
GI	none	Score	170
Exons	5914..5955, 6029..6172, 6079..6198, 6187..6354, 6239..6349		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o2.np	Method	AAT/NAP
Start	6002	End	7063
GI	5903071	Score	933
Exons	6002..6187, 6215..7063		
GI Descrip.	(AC008017) Unknown protein [Arabidopsis thaliana]		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223

Name	OJ990817_15.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	6056	End	6889
GI	none	Score	149
Exons	6056..6172, 6079..6174, 6239..6346, 6446..6499, 6451..6501, 6515..6670, 6526..6645, 6551..6664, 6752..6886, 6824..6889		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	6056	End	6634
GI	none	Score	140
Exons	6056..6172, 6239..6346, 6524..6634		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	6355	End	6661
GI	none	Score	86
Exons	6355..6492, 6446..6496, 6532..6657, 6536..6661		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6727	End	7009
GI	none	Score	180
Exons	6727..6876, 6734..6910, 6736..6870, 6878..7009, 6881..6949, 6942..7004		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	6781	End	7045
GI	none	Score	81
Exons	6781..6873, 6824..6874, 6890..7045, 6967..7035		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	6890	End	7075
GI	none	Score	222
Exons	6890..7075, 6967..7032		

Seq. No.	52981	Seq. ID	OJ990817_15.0419.C7
Gene No.	111736	Strand	+
Start	3857	End	7223
Name	OJ990817_15.0419.C7.o1.gp	Method	AAT/GAP
Start	6908	End	7223
GI	3759857	Score	591
Exons	6908..7223		
GI Descrip.	5903071/gb\|AAD55629.1\|AC008017_2 2.0e-15 (AC008017) Unknown protein [Arabidopsis thaliana]		

Seq. No.	52982	Seq. ID	OJ990817_15.0419.C8
Gene No.	111737	Strand	-
Start	917	End	3093
Name	OJ990817_15.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	876	End	1846
GI	none	Score	117
Exons	876..956, 880..957, 883..966, 1171..1320, 1179..1298, 1321..1437, 1371..1439, 1769..1846		

Seq. No.	52982	Seq. ID	OJ990817_15.0419.C8
Gene No.	111737	Strand	-
Start	917	End	3093
Name	OJ990817_15.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	882	End	1861
GI	none	Score	35
Exons	882..956, 1692..1745, 1694..1861, 1706..1840, 1800..1844		

Seq. No.	52982	Seq. ID	OJ990817_15.0419.C8
Gene No.	111737	Strand	-
Start	917	End	3093
Name	OJ990817_15.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	913	End	1822
GI	none	Score	73
Exons	913..957, 915..956, 1171..1365, 1179..1331, 1196..1378, 1366..1431, 1371..1439, 1533..1604, 1700..1819, 1706..1822		

Seq. No.	52982	Seq. ID	OJ990817_15.0419.C8
Gene No.	111737	Strand	-
Start	917	End	3093
Name	OJ990817_15.0419.C8.o1.gp	Method	AAT/GAP
Start	917	End	1290
GI	287014	Score	698
Exons	917..1290		
GI Descrip.	3608128 1.0e-08 (AC005314) hypothetical protein [Arabidopsis thaliana] >gi_4263794_gb_AAD15454_ (AC006068) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52982	Seq. ID	OJ990817_15.0419.C8
Gene No.	111737	Strand	-
Start	917	End	3093
Name	OJ990817_15.0419.C8.o1.np	Method	AAT/NAP
Start	1176	End	3093
GI	3608128	Score	263
Exons	1176..1300, 1493..1605, 1657..1867, 3067..3093		
GI Descrip.	(AC005314) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52983	Seq. ID	OJ990817_15.0419.C9
Gene No.	111738	Strand	-
Start	986	End	3832
Name	OJ990817_15.0419.C9.o1.gs	Method	GENSCAN
Start	986	End	3832
GI	none	Score	.46
Exons	986..1017, 1192..1455, 1759..1989, 2282..2298, 3062..3273, 3792..3832		

Seq. No.	52983	Seq. ID	OJ990817_15.0419.C9
Gene No.	111738	Strand	-

Start	986	End	3832
Name	OJ990817_15.0419.C9.o1.np	Method	AAT/NAP
Start	988	End	1914
GI	4587561	Score	295
Exons	988..1083, 1146..1351, 1391..1455, 1759..1914		
GI Descrip.	(AC006577) F15I1.28 [Arabidopsis thaliana]		

Seq. No.	52984	Seq. ID	OJ990817_15.0419.C10
Gene No.	111739	Strand	+
Start	1	End	3006
Name	OJ990817_15.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	3006
GI	6324335	Score	324
Exons	1..52, 2124..2366, 2485..2754, 2880..3006		
GI Descrip.	Lro1p gi\|732207\|sp\|P40345\|YN84_YEAST HYPOTHETICAL 75.4 KD PROTEIN IN AUT1-CSE2 INTERGENIC REGION gi\|626466\|pir\|\|S45131 probable membrane protein YNR008w - yeast (Saccharomyces cerevisiae) gi\|496725\|emb\|CAA54576\| (X77395) N2042 [Saccharomyces cerevisiae] gi\|1302482\|emb\|CAA96285\| (Z71623) ORF YNR008w [Saccharomyces cerevisiae]		

Seq. No.	52984	Seq. ID	OJ990817_15.0419.C10
Gene No.	111739	Strand	+
Start	1	End	3006
Name	OJ990817_15.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	2769
GI	none	Score	120
Exons	1..66, 5..67, 2141..2368, 2142..2369, 2150..2371, 2473..2742, 2477..2740, 2482..2751, 2732..2767, 2733..2768, 2734..2769		

Seq. No.	52984	Seq. ID	OJ990817_15.0419.C10
Gene No.	111739	Strand	+
Start	1	End	3006
Name	OJ990817_15.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	4	End	2303
GI	none	Score	116
Exons	4..66, 5..67, 2116..2223, 2141..2302, 2142..2303		

Seq. No.	52984	Seq. ID	OJ990817_15.0419.C10
Gene No.	111739	Strand	+
Start	1	End	3006
Name	OJ990817_15.0419.C10.o1.gs	Method	GENSCAN
Start	881	End	2768
GI	none	Score	.79
Exons	881..951, 1347..1403, 2144..2366, 2485..2768		

Seq. No.	52984	Seq. ID	OJ990817_15.0419.C10
Gene No.	111739	Strand	+
Start	1	End	3006
Name	OJ990817_15.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	2328	End	2782
GI	none	Score	71
Exons	2328..2369, 2329..2370, 2329..2367, 2477..2659, 2482..2685, 2484..2621, 2677..2769, 2685..2768, 2690..2782		

Seq. No.	52985	Seq. ID	OJ990817_15.0419.C12
Gene No.	111740	Strand	+

Start	1132	End	3200
Name	OJ990817_15.0419.C12.o1.gs	Method	GENSCAN
Start	1132	End	3200
GI	none	Score	.97
Exons	1132..1163, 2202..2352, 2652..2781, 3007..3200		

Seq. No.	52985	Seq. ID	OJ990817_15.0419.C12
Gene No.	111741	Strand	-
Start	3532	End	3747
Name	OJ990817_15.0419.C12.o2.gs	Method	GENSCAN
Start	3532	End	3747
GI	none	Score	.95
Exons	3532..3747		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	992	End	1389
GI	none	Score	127
Exons	992..1090, 993..1127, 1104..1388, 1178..1369, 1207..1389, 1258..1389		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o1.np	Method	AAT/NAP
Start	1098	End	3592
GI	6630696	Score	4202
Exons	1098..3592		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o1.gp	Method	AAT/GAP
Start	1140	End	2030
GI	101595_1.R1084	Score	1411
Exons	1140..1840, 1956..2030		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	1140	End	1448
GI	none	Score	318
Exons	1140..1448, 1187..1369, 1240..1383, 1269..1445		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1971	End	2309

GI	none	Score	391
Exons	1971..2243, 1972..2244, 1973..2245, 1973..2245, 2274..2309		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	2289	End	2669
GI	none	Score	86
Exons	2289..2438, 2421..2669		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	2427	End	2891
GI	none	Score	306
Exons	2427..2891, 2666..2884		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	2534	End	2726
GI	none	Score	266
Exons	2534..2725, 2535..2726, 2535..2726		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	2679	End	3077
GI	none	Score	199
Exons	2679..2900, 2681..2896, 2904..3077		

Seq. No.	52986	Seq. ID	OJ990817_15.0419.C14
Gene No.	111742	Strand	+
Start	1098	End	3592
Name	OJ990817_15.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	2727	End	3482
GI	none	Score	943
Exons	2727..3482, 2735..3232, 3001..3477, 3300..3482		

Seq. No.	52987	Seq. ID	OJ990817_15.0419.C16
Gene No.	111743	Strand	+
Start	1	End	771
Name	OJ990817_15.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	771
GI	7248394	Score	554
Exons	1..771		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	52987	Seq. ID	OJ990817_15.0419.C16

Gene No.	111743	Strand	+
Start	1	End	771
Name	OJ990817_15.0419.C16.o1.gs	Method	GENSCAN
Start	39	End	734
GI	none	Score	.68
Exons	39..734		

Seq. No.	52987	Seq. ID	OJ990817_15.0419.C16
Gene No.	111743	Strand	+
Start	1	End	771
Name	OJ990817_15.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	123	End	551
GI	none	Score	386
Exons	123..551, 132..446		

Seq. No.	52987	Seq. ID	OJ990817_15.0419.C16
Gene No.	111743	Strand	+
Start	1	End	771
Name	OJ990817_15.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	228	End	644
GI	none	Score	333
Exons	228..644, 278..424, 366..437, 497..580		

Seq. No.	52987	Seq. ID	OJ990817_15.0419.C16
Gene No.	111743	Strand	+
Start	1	End	771
Name	OJ990817_15.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	270	End	749
GI	none	Score	380
Exons	270..749, 281..427, 569..730		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1597
GI	5922631	Score	563
Exons	1..1597		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi\|6016864\|dbj\|BAA85207.1\| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o1.gs	Method	GENSCAN
Start	47	End	3713
GI	none	Score	.68
Exons	47..453, 482..636, 651..1608, 2002..2107, 3212..3435, 3602..3713		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713

Name	OJ990817_15.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	518	End	817
GI	none	Score	204
Exons	518..817		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	518	End	793
GI	none	Score	184
Exons	518..793		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	659	End	1048
GI	none	Score	225
Exons	659..1048, 760..981		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o3.tw	Method	TBLASTX:Wheat
Start	806	End	1171
GI	none	Score	179
Exons	806..1171		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	1192	End	1420
GI	none	Score	186
Exons	1192..1278, 1193..1420		

Seq. No.	52988	Seq. ID	OJ990817_15.0419.C17
Gene No.	111744	Strand	+
Start	1	End	3713
Name	OJ990817_15.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	1202	End	1615
GI	none	Score	391
Exons	1202..1615, 1210..1284, 1366..1554		

Seq. No.	52989	Seq. ID	OJ990817_15.0419.C18
Gene No.	111745	Strand	-
Start	28	End	1117
Name	OJ990817_15.0419.C18.o1.gs	Method	GENSCAN
Start	28	End	1117
GI	none	Score	.79
Exons	28..140, 250..439, 533..1117		

Seq. No.	52990	Seq. ID	OJ990817_15.0419.C19
Gene No.	111746	Strand	+
Start	234	End	4066
Name	OJ990817_15.0419.C19.o1.gs	Method	GENSCAN

Start	234	End	1645
GI	none	Score	.79
Exons	234..473, 1059..1218, 1575..1645		

Seq. No.	52990	Seq. ID	OJ990817_15.0419.C19
Gene No.	111746	Strand	+
Start	234	End	4066
Name	OJ990817_15.0419.C19.o1.np	Method	AAT/NAP
Start	1257	End	4066
GI	7340860	Score	81
Exons	1257..1282, 2530..2653, 4028..4066		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	52990	Seq. ID	OJ990817_15.0419.C19
Gene No.	111746	Strand	+
Start	234	End	4066
Name	OJ990817_15.0419.C19.o2.gs	Method	GENSCAN
Start	2595	End	4056
GI	none	Score	.62
Exons	2595..2666, 3735..3833, 3874..3909, 3979..4056		

Seq. No.	52990	Seq. ID	OJ990817_15.0419.C19
Gene No.	111747	Strand	-
Start	5373	End	6141
Name	OJ990817_15.0419.C19.o3.gs	Method	GENSCAN
Start	5373	End	6141
GI	none	Score	.57
Exons	5373..5461, 5953..6141		

Seq. No.	52991	Seq. ID	OJ990817_15.0419.C20
Gene No.	111748	Strand	+
Start	769	End	1129
Name	OJ990817_15.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	757	End	1116
GI	none	Score	274
Exons	757..1002, 768..821, 840..1004, 985..1116		

Seq. No.	52991	Seq. ID	OJ990817_15.0419.C20
Gene No.	111748	Strand	+
Start	769	End	1129
Name	OJ990817_15.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	763	End	1128
GI	none	Score	372
Exons	763..1005, 768..1004, 966..1127, 985..1128		

Seq. No.	52991	Seq. ID	OJ990817_15.0419.C20
Gene No.	111748	Strand	+
Start	769	End	1129
Name	OJ990817_15.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	763	End	1002
GI	none	Score	281
Exons	763..1002, 768..1001		

Seq. No.	52991	Seq. ID	OJ990817_15.0419.C20
Gene No.	111748	Strand	+
Start	769	End	1129

Name	OJ990817_15.0419.C20.o1.np	Method	AAT/NAP
Start	769	End	1129
GI	7485478	Score	362
Exons	769..1129		
GI Descrip.	hypothetical protein F14M19.10 - Arabidopsis thaliana (fragment)		

Seq. No.	52992	Seq. ID	OJ990817_15.0419.C21
Gene No.	111749	Strand	+
Start	7321	End	9382
Name	OJ990817_15.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	4891	End	5185
GI	none	Score	379
Exons	4891..5181, 4892..5185		

Seq. No.	52992	Seq. ID	OJ990817_15.0419.C21
Gene No.	111749	Strand	+
Start	7321	End	9382
Name	OJ990817_15.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	4991	End	5377
GI	none	Score	262
Exons	4991..5233, 5011..5202, 5150..5347, 5270..5377		

Seq. No.	52992	Seq. ID	OJ990817_15.0419.C21
Gene No.	111749	Strand	+
Start	7321	End	9382
Name	OJ990817_15.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	5297	End	5671
GI	none	Score	77
Exons	5297..5350, 5299..5535, 5408..5533, 5552..5671, 5569..5622		

Seq. No.	52992	Seq. ID	OJ990817_15.0419.C21
Gene No.	111749	Strand	+
Start	7321	End	9382
Name	OJ990817_15.0419.C21.o2.gs	Method	GENSCAN
Start	7321	End	9382
GI	none	Score	.59
Exons	7321..7553, 7648..7792, 8439..8625, 9303..9382		

Seq. No.	52993	Seq. ID	OJ990817_15.0419.C23
Gene No.	111750	Strand	-
Start	1	End	1872
Name	OJ990817_15.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1842
GI	4406792	Score	306
Exons	1..217, 1405..1842		
GI Descrip.	(AC006304) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	52993	Seq. ID	OJ990817_15.0419.C23
Gene No.	111750	Strand	-
Start	1	End	1872
Name	OJ990817_15.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	8	End	259
GI	none	Score	111
Exons	8..259, 9..236		

Seq. No.	52993	Seq. ID	OJ990817_15.0419.C23

Gene No.	111750	Strand	-
Start	1	End	1872
Name	OJ990817_15.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	1453	End	1872
GI	none	Score	256
Exons	1453..1872		

Seq. No.	52994	Seq. ID	OJ990817_15.0419.C25
Gene No.	111751	Strand	-
Start	169	End	297
Name	OJ990817_15.0419.C25.o1.gs	Method	GENSCAN
Start	169	End	297
GI	none	Score	.83
Exons	169..297		

Seq. No.	52995	Seq. ID	OJ990817_15.0419.C26
Gene No.	111752	Strand	+
Start	310	End	2052
Name	OJ990817_15.0419.C26.o1.gs	Method	GENSCAN
Start	310	End	2052
GI	none	Score	.4
Exons	310..397, 1676..1752, 1814..1844, 1897..2052		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111753	Strand	+
Start	679	End	1887
Name	OJ990817_15.0419.C29.o1.gs	Method	GENSCAN
Start	679	End	1887
GI	none	Score	.71
Exons	679..1887		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111753	Strand	+
Start	679	End	1887
Name	OJ990817_15.0419.C29.o1.np	Method	AAT/NAP
Start	679	End	1884
GI	1196998	Score	2114
Exons	679..1884		
GI Descrip.	(J01829) unknown protein [Transposon Tn10] gi\|5103202\|dbj\|BAA78838.1\| (AP000342) transposase of Tn10 [Plasmid R100] gi\|5706382\|dbj\|BAA83097.1\| (AB026428) transposase [Methylomonas aminofaciens] gi\|5738092\|gb\|AAD50250.1\|AF162223_9 (AF162223) IS10-right transposase [Shigella flexneri] gi\|6721110\|gb\|AAF26764.1\|AC007396_13 (AC007396) T4O12.21 [Arabidopsis thaliana]		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111754	Strand	+
Start	7434	End	7644
Name	OJ990817_15.0419.C29.o4.gs	Method	GENSCAN
Start	7434	End	7644
GI	none	Score	.48
Exons	7434..7561, 7632..7644		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111755	Strand	+
Start	10201	End	16165

Name	OJ990817_15.0419.C29.o3.np	Method	AAT/NAP
Start	9856	End	14219
GI	7485859	Score	857
Exons	9856..9890, 11060..12772, 14202..14219		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi\|4467124\|emb\|CAB37558.1\| (AL035538) hypothetical protein [Arabidopsis thaliana] gi\|7270802\|emb\|CAB80483.1\| (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111755	Strand	+
Start	10201	End	16165
Name	OJ990817_15.0419.C29.o6.gs	Method	GENSCAN
Start	10201	End	16165
GI	none	Score	.43
Exons	10201..10227, 10411..10624, 10699..10844, 11017..11158, 11399..12197, 12317..12631, 12851..13236, 14529..14776, 15475..15606, 16046..16165		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111756	Strand	-
Start	44	End	3122
Name	OJ990817_15.0419.C29.o1.gp	Method	AAT/GAP
Start	44	End	3122
GI	30308_1.R1084	Score	1779
Exons	44..328, 2384..2533, 2628..3122		
GI Descrip.	'2507455/sp\|P28723\|FTHS_SPIOL 7.0e-88 FORMATE--TETRAHYDROFOLATE LIGASE (FORMYLTETRAHYDROFOLATE SYNTHETASE) (FHS) (FTHFS) >gi_322401_pir__A43350 formate--tetrahydrofolate ligase (EC 6.3.4.3) - spinach >gi_170145 (M83940) 10-formyltetrahydrofolate synthetase [Spinacia oleracea]'		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111756	Strand	-
Start	44	End	3122
Name	OJ990817_15.0419.C29.o2.gs	Method	GENSCAN
Start	2111	End	3002
GI	none	Score	.91
Exons	2111..2149, 2288..2311, 2384..2533, 2628..3002		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111757	Strand	-
Start	4463	End	19938
Name	OJ990817_15.0419.C29.o3.gs	Method	GENSCAN
Start	4463	End	6228
GI	none	Score	.59
Exons	4463..4660, 4683..4884, 4918..5144, 6151..6228		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111757	Strand	-
Start	4463	End	19938
Name	OJ990817_15.0419.C29.o2.np	Method	AAT/NAP
Start	5785	End	19938
GI	7487241	Score	132
Exons	5785..5827, 9817..9917, 17123..17390, 17521..17625, 19898..19938		
GI Descrip.	hypothetical protein T20B5.3 - Arabidopsis thaliana gi\|2623297\|gb\|AAB86443.1\| (AC002409) unknown protein		

[Arabidopsis thaliana] gi|3790583|gb|AAC69854.1| (AF079180) RING-H2 finger protein RHC1a [Arabidopsis thaliana]

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111757	Strand	-
Start	4463	End	19938
Name	OJ990817_15.0419.C29.o5.gs	Method	GENSCAN
Start	8510	End	9433
GI	none	Score	.4
Exons	8510..9433		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111757	Strand	-
Start	4463	End	19938
Name	OJ990817_15.0419.C29.o4.np	Method	AAT/NAP
Start	16456	End	17811
GI	7486423	Score	114
Exons	16456..16573, 17253..17516, 17639..17811		
GI Descrip.	hypothetical protein F4I1.14 - Arabidopsis thaliana gi\|3128178\|gb\|AAC16082.1\| (AC004521) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111757	Strand	-
Start	4463	End	19938
Name	OJ990817_15.0419.C29.o7.gs	Method	GENSCAN
Start	17009	End	19298
GI	none	Score	.94
Exons	17009..17834, 19288..19298		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	45	End	329
GI	none	Score	166
Exons	45..248, 47..328, 47..319, 81..329		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	45	End	2792
GI	none	Score	84
Exons	45..125, 47..124, 98..154, 147..329, 158..331, 288..338, 2381..2536, 2381..2536, 2623..2655, 2625..2792, 2713..2775		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o3.tc	Method	TBLASTX:Cress
Start	560	End	718
GI	none	Score	228
Exons	560..718, 569..718		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-

Start	21887	End	24009
Name	OJ990817_15.0419.C29.o2.tc	Method	TBLASTX:Cress
Start	2364	End	2780
GI	none	Score	144
Exons	2364..2534, 2381..2536, 2623..2655, 2625..2780, 2713..2772		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o3.tm	Method	TBLASTX:Maize
Start	2381	End	2792
GI	none	Score	138
Exons	2381..2536, 2382..2534, 2623..2655, 2625..2792, 2713..2775		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o4.tm	Method	TBLASTX:Maize
Start	11647	End	12036
GI	none	Score	302
Exons	11647..12036, 11746..12027		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	11703	End	12434
GI	none	Score	97
Exons	11703..11849, 11703..12023, 11704..12258, 11887..12189, 12291..12434		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	11872	End	12234
GI	none	Score	214
Exons	11872..12234		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o2.gp	Method	AAT/GAP
Start	21419	End	21972
GI	LIB3434-005-P1-K1-E5	Score	828
Exons	21419..21625, 21716..21972		
GI Descrip.	'5903071/gb\|AAD55629.1\|AC008017_2 2.0e-15 (AC008017) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o5.np	Method	AAT/NAP
Start	21804	End	24009
GI	2981463	Score	1010
Exons	21804..21865, 21910..22154, 22239..24009		
GI Descrip.	(AF052663) gamma-tubulin interacting protein [Xenopus laevis]		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	21882	End	22416
GI	none	Score	303
Exons	21882..22133, 21882..22103, 21887..22111, 22128..22157, 22129..22155, 22235..22387, 22244..22381, 22245..22412, 22252..22416		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o8.gs	Method	GENSCAN
Start	21887	End	23917
GI	none	Score	.86
Exons	21887..22154, 22245..23917		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o4.ts	Method	TBLASTX:Soybean
Start	21902	End	22130
GI	none	Score	178
Exons	21902..22111, 21906..22130		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o3.gp	Method	AAT/GAP
Start	22612	End	22983
GI	2310327	Score	713
Exons	22612..22983		
GI Descrip.	2981463 1.0e-25 (AF052663) gamma-tubulin interacting protein [Xenopus laevis]		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	22667	End	22958
GI	none	Score	372
Exons	22667..22957, 22668..22958		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o5.tm	Method	TBLASTX:Maize
Start	22993	End	23203
GI	none	Score	135
Exons	22993..23133, 23030..23203, 23033..23203		

Seq. No.	52996	Seq. ID	OJ990817_15.0419.C29
Gene No.	111758	Strand	-
Start	21887	End	24009
Name	OJ990817_15.0419.C29.o3.ts	Method	TBLASTX:Soybean

Start	23063	End	23314
GI	none	Score	89
Exons	23063..23179, 23183..23314, 23196..23309		

Seq. No.	52997	Seq. ID	OJ990817_15.0419.C30
Gene No.	111759	Strand	+
Start	2204	End	2436
Name	OJ990817_15.0419.C30.o1.np	Method	AAT/NAP
Start	2204	End	2436
GI	4586030	Score	112
Exons	2204..2311, 2394..2436		
GI Descrip.	(AC007109) unknown protein [Arabidopsis thaliana]		

Seq. No.	52997	Seq. ID	OJ990817_15.0419.C30
Gene No.	111760	Strand	-
Start	33	End	2364
Name	OJ990817_15.0419.C30.o1.gs	Method	GENSCAN
Start	33	End	2364
GI	none	Score	.46
Exons	33..380, 2020..2364		

Seq. No.	52998	Seq. ID	OJ990817_15.0419.C31
Gene No.	111761	Strand	-
Start	1198	End	1804
Name	OJ990817_15.0419.C31.o1.gs	Method	GENSCAN
Start	1198	End	1797
GI	none	Score	.85
Exons	1198..1797		

Seq. No.	52998	Seq. ID	OJ990817_15.0419.C31
Gene No.	111761	Strand	-
Start	1198	End	1804
Name	OJ990817_15.0419.C31.o1.np	Method	AAT/NAP
Start	1327	End	1804
GI	461704	Score	155
Exons	1327..1443, 1484..1804		
GI Descrip.	CDC2-LIKE SERINE/THREONINE-PROTEIN KINASE CRP gi\|481902\|pir\|\|S40021 protein kinase (EC 2.7.1.37) cdc2 homolog - slime mold (Dictyostelium discoideum) gi\|167696\|gb\|AAA16056.1\| (L00652) crp [Dictyostelium discoideum]		

Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111762	Strand	-
Start	1	End	2753
Name	OJ990817_15.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	2753
GI	7340884	Score	147
Exons	1..41, 2565..2753		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111763	Strand	-
Start	2767	End	5130
Name	OJ990817_15.0419.C32.o2.gs	Method	GENSCAN
Start	2767	End	5130
GI	none	Score	.89